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NEWS 1		Web Page URLs for STN Seminar Schedule - N. America
NEWS 2	JAN 08	CHEMLIST enhanced with New Zealand Inventory of Chemicals
NEWS 3	JAN 16	CA/CAplus Company Name Thesaurus enhanced and reloaded
NEWS 4	JAN 16	IPC version 2007.01 thesaurus available on STN
NEWS 5	JAN 16	WPIDS/WPINDEX/WPIX enhanced with IPC 8 reclassification data
NEWS 6	JAN 22	CA/CAplus updated with revised CAS roles
NEWS 7	JAN 22	CA/CAplus enhanced with patent applications from India
NEWS 8	JAN 29	PHAR reloaded with new search and display fields
NEWS 9	JAN 29	CAS Registry Number crossover limit increased to 300,000 in multiple databases
NEWS 10	FEB 15	PATDPASPC enhanced with Drug Approval numbers
NEWS 11	FEB 15	RUSSIAPAT enhanced with pre-1994 records
NEWS 12	FEB 23	KOREAPAT enhanced with IPC 8 features and functionality
NEWS 13	FEB 26	MEDLINE reloaded with enhancements
NEWS 14	FEB 26	EMBASE enhanced with Clinical Trial Number field
NEWS 15	FEB 26	TOXCENTER enhanced with reloaded MEDLINE
NEWS 16	FEB 26	IFICDB/IFIPAT/IFIUDB reloaded with enhancements
NEWS 17	FEB 26	CAS Registry Number crossover limit increased from 10,000 to 300,000 in multiple databases
NEWS 18	MAR 15	WPIDS/WPIX enhanced with new FRAGHITSTR display format
NEWS 19	MAR 16	CASREACT coverage extended
NEWS 20	MAR 20	MARPAT now updated daily
NEWS 21	MAR 22	LWPI reloaded
NEWS 22	MAR 30	RDISCLOSURE reloaded with enhancements
NEWS 23	MAR 30	INPADOCDB will replace INPADOC on STN
NEWS 24	APR 02	JICST-EPLUS removed from database clusters and STN

NEWS EXPRESS NOVEMBER 10 CURRENT WINDOWS VERSION IS V8.01c, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 25 SEPTEMBER 2006.

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NEWS LOGIN	Welcome Banner and News Items
NEWS IPC8	For general information regarding STN implementation of IPC 8

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* * * * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 11:11:29 ON 18 APR 2007

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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 11:11:37 ON 18 APR 2007

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 16 APR 2007 HIGHEST RN 930395-50-9
DICTIONARY FILE UPDATES: 16 APR 2007 HIGHEST RN 930395-50-9

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=>
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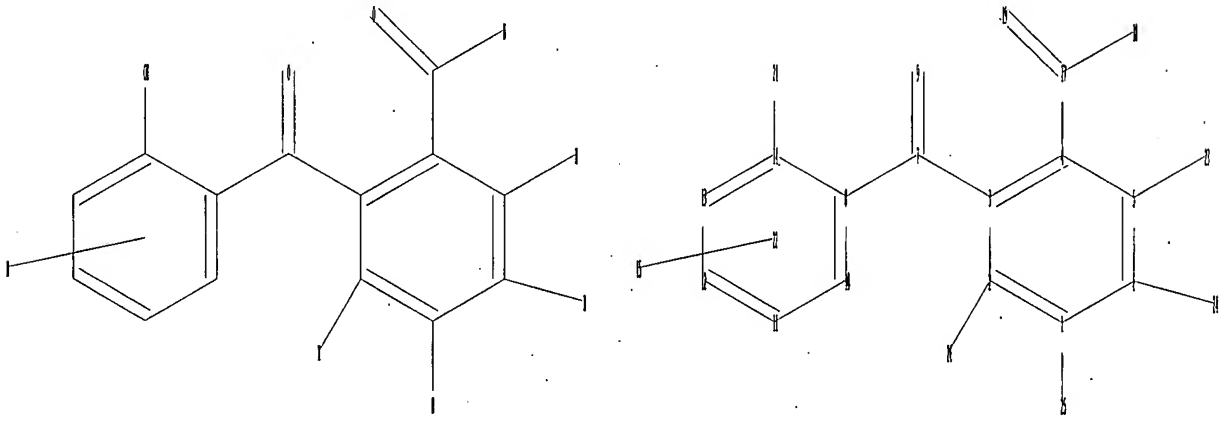

chain nodes :
7 9 17 19 21 23 24 25 26
ring nodes :
1 2 3 4 5 6 8 10 11 12 13 14
ring/chain nodes :
15 18
chain bonds :
1-25 2-26 3-7 4-17 5-23 6-24 7-8 7-9 14-21 17-18 17-19

```
ring bonds :
1-2  1-6  2-3  3-4  4-5  5-6  8-10  8-14  10-11  11-12  12-13  13-14
exact/norm bonds :
7-9  14-21  17-18  17-19
exact bonds :
1-25  2-26  3-7  4-17  5-23  6-24  7-8
normalized bonds :
1-2  1-6  2-3  3-4  4-5  5-6  8-10  8-14  10-11  11-12  12-13  13-14
isolated ring systems :
containing 1 : 8 :


G1:O,N

Match level :
1:Atom  2:Atom  3:Atom  4:Atom  5:Atom  6:Atom  7:CLASS  8:Atom  9:CLASS  10:Atom
11:Atom  12:Atom  13:Atom  14:Atom  15:CLASS  17:CLASS  18:CLASS  19:CLASS
21:CLASS  22:Atom  23:CLASS  24:CLASS  25:CLASS  26:CLASS



L1      STRUCTURE UPLOADED

=> d
L1 HAS NO ANSWERS
L1                STR
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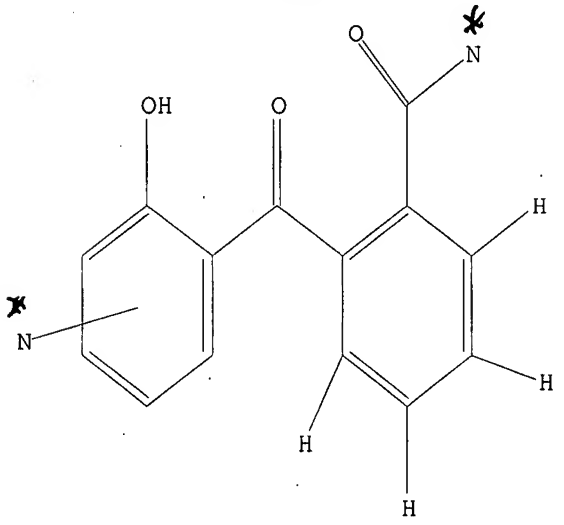

* = chain/ring

A = N

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G1 O,N

Structure attributes must be viewed using STN Express query preparation.

=> s l1 full
FULL SEARCH INITIATED 11:11:56 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -      555 TO ITERATE

100.0% PROCESSED       555 ITERATIONS                    9 ANSWERS
SEARCH TIME: 00.00.01

L2             9 SEA SSS FUL L1
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=> fil caplus
COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                 ENTRY    SESSION
FULL ESTIMATED COST                             172.10     172.31

FILE 'CAPLUS' ENTERED AT 11:12:01 ON 18 APR 2007
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FILE LAST UPDATED: 16 Apr 2007  (20070416/ED)

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http://www.cas.org/infopolicy.html

=> s l2
L3              5 L2

=> d ibib abs hitstr 1-5
```
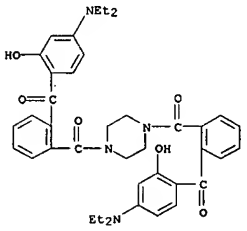

L3 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2006:676208 CAPLUS
DOCUMENT NUMBER: 146:168787
TITLE: Use of amino hydroxy benzophenone derivatives for protecting human hair and skin
AUTHOR(S): Anon.
CORPORATE SOURCE: USA
SOURCE: IP.com Journal (2006), 6(6A), 14 (No. IPCOM000136730D), 30 May 2006
CODEN: IJPOBX; ISSN: 1533-0001
PUBLISHER: IP.com, Inc.
DOCUMENT TYPE: Journal; Patent
LANGUAGE: English
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
IP 136730D		20060530		
PRIORITY APPLN. INFO.:			IP 2006-136730D	20060530

AB Disclosed are specific micronized organic UV absorbers from the class of the benzophenone derivs. which are useful for protecting human hair and skin against UV radiation and skin aging and preventing tanning. A further subject of the disclosure are cosmetic or dermatol. compns. comprising these UV absorbers.
IT 919803-06-8
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(amino hydroxy benzophenone derivs. for protecting human hair and skin)
RN 919803-06-8 CAPLUS
CN Methanone, 1,1'-(1,4-piperazinediyl)bis[1-[2-[4-(diethylamino)-2-hydroxybenzoyl]phenyl]- (CA INDEX NAME)



L3 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2004:515467 CAPLUS
DOCUMENT NUMBER: 141:71355
TITLE: Preparation of amino substituted hydroxyphenyl benzophenone derivatives as UV absorbers
INVENTOR(S): Haase, Juerg; Ehlis, Thomas; Borsos, Elek; Mueller, Stefan
PATENT ASSIGNEE(S): Ciba Specialty Chemicals Holding Inc., Switz.
SOURCE: PCT Int. Appl., 50 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004052837	A2	20040624	WO 2003-EP50937	20031203
WO 2004052837	A3	20040910		
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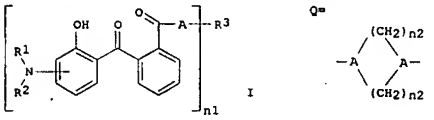
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2003298343	A1	20040630	AU 2003-298343	20031203
EP 1569893	A2	20050907	EP 2003-796081	20031203
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
BR 2003016607	A	20051011	BR 2003-16607	20031203
CN 1726184	A	20060125	CN 2003-80103885	20031203
JP 2006509834	T	20060323	JP 2005-502323	20031203
US 2006018846	A1	20060126	US 2005-537940	20050607
PRIORITY APPLN. INFO.:			EP 2002-406093	A 20021212
			CH 2003-1113	A 20030625
			EP 2003-102297	A 20030725
			WO 2003-EP50937	W 20031203

OTHER SOURCE(S): MARPAT 141:71355
GI

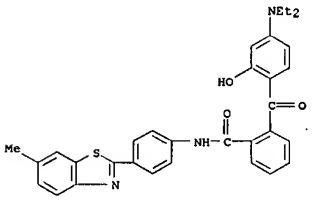
Instant App.

12/12/02

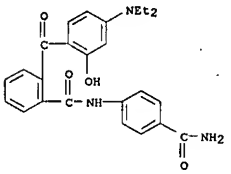
L3 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



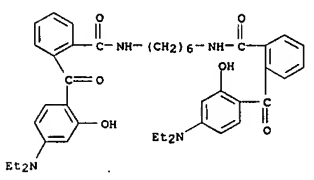
AB Described are aminohydroxybenzophenonecarboxamide derivs. of formula (I) [wherein R1, R2 = independently C1-20 alkyl, C2-20 alkenyl, C3-10 cycloalkyl, C3-10 C3-C10 cycloalkenyl; or R1 and R2 together with the linking nitrogen atom form a 5- or 6-membered heterocyclic ring; n1 = 1-4; when n1 = 1, R3 = saturated or unsatd. heterocyclic radical, hydroxy-C1-C5 alkyl, cyclohexyl optionally substituted with one or more C1-5 alkyl, Ph optionally substituted with a heterocyclic radical, aminocarbonyl, C1-5 alkylcarboxy; when n1 = 2, R3 = alkylene, cycloalkylene or alkenylene radical which is optionally substituted by a carbonyl or carboxy group; or R3 together with A forms a bivalent radical of the formula Q; wherein n2 = 1-3; when n1 = 3, R3 = alkanetriyl radical; when n1 = 4, R3 = alkanetetrayl radical; A = O, N(R5); R5 = H, C1-5 alkyl, hydroxy-C1-5 alkyl]. These compds. are useful as UV filters in sunscreen applications, preferably for the protection of human and animal hairs and from the damage of UV radiation as well as cosmetic compns. comprising these compds. Thus, a solution of 10.6 g 3-diethylaminodibenzooxepin (preparation given) in 20 mL diethylene glycol di-Me ether was added to a suspension of 7.2 g 2-(4-aminophenyl)-6-methylbenzothiazole are suspended in 60 mL diethylene glycol di-Me ether at room temperature under stirring, heated to 90°, and allowed to react for 4 h to give 7.3 g N-[4-(6-methylbenzothiazol-2-yl)phenyl]-2-(4-diethylamino-2-hydroxybenzoyl)benzamide.
IT 682349-14-0P, N-[4-(6-Methylbenzothiazol-2-yl)phenyl]-2-(4-diethylamino-2-hydroxybenzoyl)benzamide 682349-15-1P, N-(4-Carbamoylphenyl)-2-(4-diethylamino-2-hydroxybenzoyl)benzamide 682349-18-4P, 1,6-Bis[[2-[4-(diethylamino)-2-hydroxybenzoyl]benzoyl]amino]hexane 682349-19-5P, N-Phenyl-2-(4-diethylamino-2-hydroxybenzoyl)benzamide 682349-20-8P, 4-[2-(4-Diethylamino-2-hydroxybenzoyl)benzoyl]morpholine 682349-21-9P, N,N-Bis(2-hydroxyethyl)-2-(4-diethylamino-2-hydroxybenzoyl)benzamide
RL: BUU (Biological use, unclassified); COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of amino substituted hydroxyphenyl benzophenone derivs. as UV absorbers in sunscreen applications)
RN 682349-14-0 CAPLUS
CN Benzamide, 2-[4-(diethylamino)-2-hydroxybenzoyl]-N-[4-(6-methyl-2-benzothiazolyl)phenyl]- (9CI) (CA INDEX NAME)



RN 682349-15-1 CAPLUS
CN Benzamide, N-[4-(aminocarbonyl)phenyl]-2-[4-(diethylamino)-2-hydroxybenzoyl]- (9CI) (CA INDEX NAME)

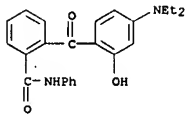


RN 682349-18-4 CAPLUS
CN Benzamide, N,N'-1,6-hexanediylbis[2-[4-(diethylamino)-2-hydroxybenzoyl]- (9CI) (CA INDEX NAME)

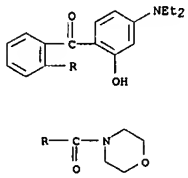


RN 682349-19-5 CAPLUS
CN Benzamide, 2-[4-(diethylamino)-2-hydroxybenzoyl]-N-phenyl- (9CI) (CA

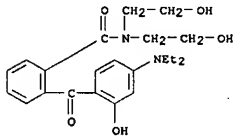
L3 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
INDEX NAME)



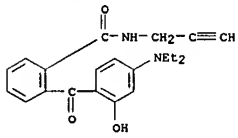
RN 682349-20-8 CAPLUS
CN Morpholine, 4-[2-[4-(diethylamino)-2-hydroxybenzoyl]benzoyl]- (9CI) (CA INDEX NAME)

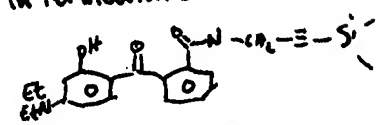


RN 682349-21-9 CAPLUS
CN Benzamide, 2-[4-(diethylamino)-2-hydroxybenzoyl]-N,N-bis(2-hydroxyethyl)- (9CI) (CA INDEX NAME)



L3 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)





REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

$n_1 = 1$ $A = N$
$R^3 = -CH_2-\equiv-H$
$R^1, R^2 = Et$
Claim 29 (alkynyl not claimed)

L3 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2003:836807 CAPLUS
DOCUMENT NUMBER: 139:327930
TITLE: Organosilicone derivatives of amino hydroxybenzophenones and their use as UVA filters in cosmetic preparations
INVENTOR(S): Berg-Schultz, Katja; Huber, Ulrich
PATENT ASSIGNEE(S): Roche Vitamins A.-G., Switz.
SOURCE: PCT Int. Appl., 27 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003086340	A1	20031023	WO 2003-EP3095	20030325
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2003226709	A1	20031027	AU 2003-226709	20030325
EP 1494642	A1	20050112	EP 2003-746278	20030325
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
BR 2003009195	A	20050209	BR 2003-9195	20030325
CN 1646091	A	20050727	CN 2003-808320	20030325
JP 2005539099	T	20051222	JP 2003-583584	20030325
US 2005255066	A1	20051117	US 2005-511020	20050509
PRIORITY APPLN. INFO.:			EP 2002-8419 A	20020412
			WO 2003-EP3095 W	20030325

PCT 3/25/03
371 5/9/05
4/12/02

AB The present invention relates to organosilicone derivs. of amino hydroxybenzophenones, a process for their preparation, a cosmetic compns. comprising the organosilicone derivative and the use thereof for protecting
hair and/or skin from damage caused by UVA irradiation
IT 614755-90-7P
RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of organosilicone derivs. of amino hydroxybenzophenones as
sunscreen against UVA radiation for cosmetics)
RN 614755-90-7 CAPLUS
CN Benzamide, 2-[4-(diethylamino)-2-hydroxybenzoyl]-N-2-propynyl- (9CI) (CA INDEX NAME)

L3 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2003:830446 CAPLUS
DOCUMENT NUMBER: 140:362521
TITLE: Preparation of amino substituted hydroxyphenyl benzophenone derivatives and their uses as UV filters in sunscreen formulations
AUTHOR(S): Anon.
CORPORATE SOURCE: USA
SOURCE: IP.Com Journal (2003), 3(8), 40 (No. IPCOM000018721D)
, 4 Aug 2003
CODEN: IJPOBX; ISSN: 1533-0001
PUBLISHER: IP.com, Inc.
DOCUMENT TYPE: Journal; Patent
LANGUAGE: English
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
IP 18721D		20030804		
PRIORITY APPLN. INFO.:			IP 2003-18721D	20030804

X

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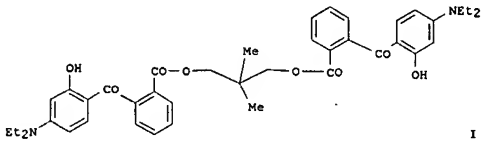
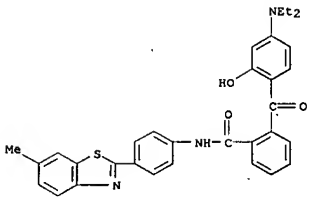


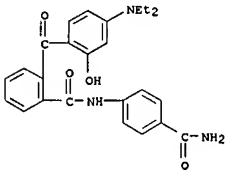
I

AB Described are synthesis of amino substituted hydroxyphenyl benzophenone derivs. The compds. are useful as UV filters in sunscreen applications. For example, comound I synthesized by reacting anhydrous 4-diethylamino 2-hydroxy benzophenone carboxylic acid with 2,2-dimethyl-1,3-propanediol was found to be a good UV absorber and was incorporated into sunscreen formulations.
IT 682349-14-0P 682349-15-1P 682349-18-4P
682349-19-5P 682349-20-8P 682349-21-9P
RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of amino substituted hydroxyphenyl benzophenone derivs. and
their uses as UV filters in sunscreen formulations)
RN 682349-14-0 CAPLUS
CN Benzamide, 2-[4-(diethylamino)-2-hydroxybenzoyl]-N-[4-(6-methyl-2-benzothiazolyl)phenyl]- (9CI) (CA INDEX NAME)

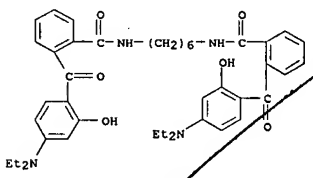
L3 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 682349-15-1 CAPLUS
CN Benzamide, N-[4-(aminocarbonyl)phenyl]-2-[4-(diethylamino)-2-hydroxybenzoyl]- (9CI) (CA INDEX NAME)



RN 682349-18-4 CAPLUS
CN Benzamide, N,N'-1,6-hexanediylbis[2-[4-(diethylamino)-2-hydroxybenzoyl]- (9CI) (CA INDEX NAME)



L3 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN

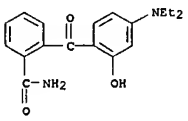
ACCESSION NUMBER: 2001:895548 CAPLUS
DOCUMENT NUMBER: 136:38973
TITLE: Phase-change inks containing benzoyl benzamides
INVENTOR(S): Malhotra, Shadi L.; Goodbrand, H. Bruce
PATENT ASSIGNEE(S): Xerox Corporation, USA
SOURCE: U.S., 14 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6328793	B1	20011211	US 2000-632190	20000803
PRIORITY APPLN. INFO.:			US 2000-632190	20000803

OTHER SOURCE(S): MARPAT 136:38973

AB Disclosed is an ink composition comprising (a) a benzoyl benzamide compound; (b) a viscosity-modifying benzoyl-group-containing compound; (c) a colorant; and (d) an optional conductivity enhancing agent.

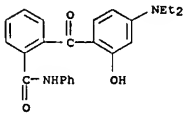
IT 380228-12-6
RL: TEM (Technical or engineered material use); USES (Uses)
(phase-change inks containing benzoyl benzamides)
RN 380228-12-6 CAPLUS
CN Benzamide, 2-[4-(diethylamino)-2-hydroxybenzoyl]- (9CI) (CA INDEX NAME)



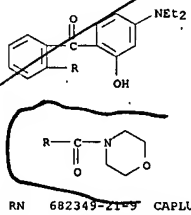
REFERENCE COUNT: 27 THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

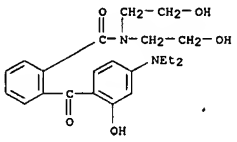
RN 682349-19-5 CAPLUS
CN Benzamide, 2-[4-(diethylamino)-2-hydroxybenzoyl]-N-phenyl- (9CI) (CA INDEX NAME)

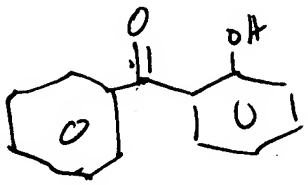


RN 682349-20-8 CAPLUS
CN Morpholine, 4-[2-[4-(diethylamino)-2-hydroxybenzoyl]benzoyl]- (9CI) (CA INDEX NAME)

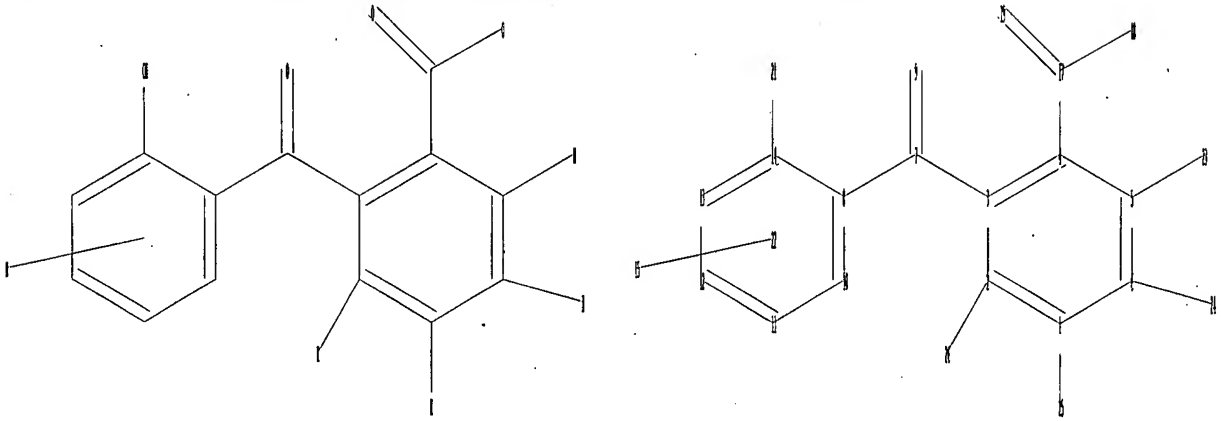


RN 682349-21-9 CAPLUS
CN Benzamide, 2-[4-(diethylamino)-2-hydroxybenzoyl]-N,N-bis(2-hydroxyethyl)- (9CI) (CA INDEX NAME)





=>
Uploading C:\Program Files\Stnexp\Queries\10537940\april 2.str



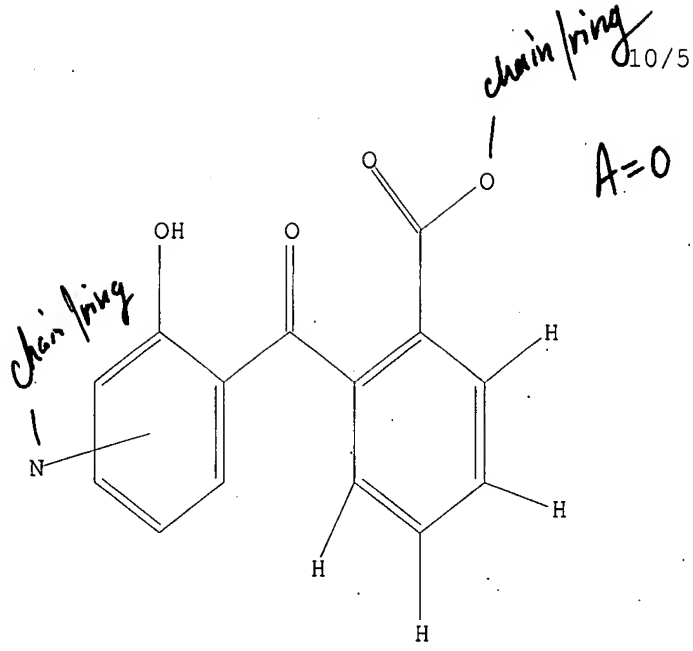
chain nodes :
7 9 17 19 21 23 24 25 26
ring nodes :
1 2 3 4 5 6 8 10 11 12 13 14
ring/chain nodes :
15 18
chain bonds :
1-25 2-26 3-7 4-17 5-23 6-24 7-8 7-9 14-21 17-18 17-19
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 8-10 8-14 10-11 11-12 12-13 13-14
exact/norm bonds :
7-9 14-21 17-18 17-19
exact bonds :
1-25 2-26 3-7 4-17 5-23 6-24 7-8
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 8-10 8-14 10-11 11-12 12-13 13-14
isolated ring systems :
containing 1 : 8 :

G1:O,N

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:Atom 9:CLASS 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:CLASS 17:CLASS 18:CLASS 19:CLASS
21:CLASS 22:Atom 23:CLASS 24:CLASS 25:CLASS 26:CLASS

L4 STRUCTURE UPLOADED

=> d
L4 HAS NO ANSWERS
L4 STR



G1 O,N

Structure attributes must be viewed using STN Express query preparation.

=> s l4 full
REG1stRY INITIATED
Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

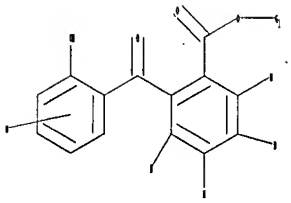
FULL SEARCH INITIATED 11:13:43 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 2254 TO ITERATE

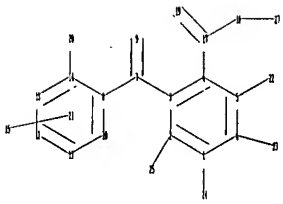
100.0% PROCESSED 2254 ITERATIONS 272 ANSWERS
SEARCH TIME: 00.00.01

L5 272 SEA SSS FUL L4

L6 665 L5

=>
Uploading C:\Program Files\Stnexp\Queries\10537940\april 3.str





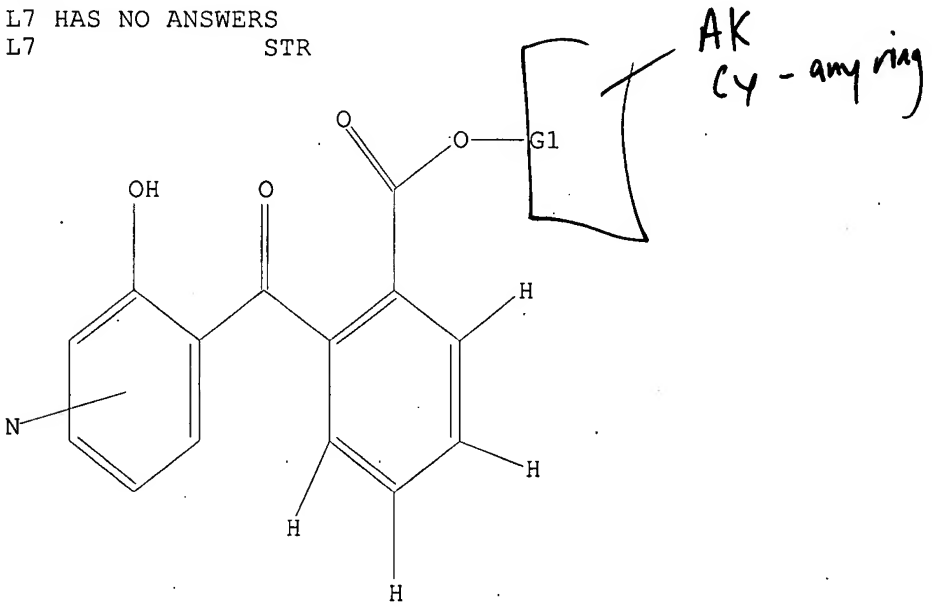
chain nodes :
7 9 17 19 20 22 23 24 25 27
ring nodes :
1 2 3 4 5 6 8 10 11 12 13 14
ring/chain nodes :
15 18
chain bonds :
1-24 2-25 3-7 4-17 5-22 6-23 7-8 7-9 14-20 17-18 17-19 18-27
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 8-10 8-14 10-11 11-12 12-13 13-14
exact/norm bonds :
7-9 14-20 17-18 17-19 18-27
exact bonds :
1-24 2-25 3-7 4-17 5-22 6-23 7-8
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 8-10 8-14 10-11 11-12 12-13 13-14
isolated ring systems :
containing 1 : 8 :

G1:Cy,Ak

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:Atom 9:CLASS 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:CLASS 17:CLASS 18:CLASS 19:CLASS
20:CLASS 21:Atom 22:CLASS 23:CLASS 24:CLASS 25:CLASS 27:CLASS

L7 STRUCTURE UPLOADED

=> d
L7 HAS NO ANSWERS
L7 STR



G1 Cy,Ak

Structure attributes must be viewed using STN Express query preparation.

=> s l7 full sub=15
REGISTRY INITIATED
Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

FULL SUBSET SEARCH INITIATED 11:14:18 FILE 'REGISTRY'
FULL SUBSET SCREEN SEARCH COMPLETED - 272 TO ITERATE

100.0% PROCESSED 272 ITERATIONS 34 ANSWERS
SEARCH TIME: 00.00.01

L8 34 SEA SUB=L5 SSS FUL L7

SUBSET IS IGNORED AS A SCOPE FOR THIS SEARCH
L9 166 L8

=> fil reg
COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL SESSION
FULL ESTIMATED COST 0.94 414.68

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE ENTRY TOTAL SESSION
CA SUBSCRIBER PRICE 0.00 -3.90

FILE 'REGISTRY' ENTERED AT 11:15:32 ON 18 APR 2007
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 16 APR 2007 HIGHEST RN 930395-50-9
DICTIONARY FILE UPDATES: 16 APR 2007 HIGHEST RN 930395-50-9

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH December 2, 2006

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

=> sel rn l8
E1 THROUGH E34 ASSIGNED

=> s e1-e34
1 139394-79-9/BI
(139394-79-9/RN)
1 139394-80-2/BI
(139394-80-2/RN)
1 139395-21-4/BI
(139395-21-4/RN)
1 302776-65-4/BI
(302776-65-4/RN)
1 302776-66-5/BI
(302776-66-5/RN)
1 302776-67-6/BI
(302776-67-6/RN)
1 302776-68-7/BI

registry counts -34

(302776-68-7/RN)
1 302776-69-8/BI
(302776-69-8/RN)
1 302776-70-1/BI
(302776-70-1/RN)
1 302776-73-4/BI
(302776-73-4/RN)
1 363602-14-6/BI
(363602-14-6/RN)
1 470716-63-3/BI
(470716-63-3/RN)
1 614755-88-3/BI
(614755-88-3/RN)
1 614755-89-4/BI
(614755-89-4/RN)
1 682349-16-2/BI
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1 682349-17-3/BI
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1 682349-22-0/BI
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(682349-24-2/RN)
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(682349-25-3/RN)
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1 916463-31-5/BI
(916463-31-5/RN)
1 916463-32-6/BI
(916463-32-6/RN)
1 95317-77-4/BI
(95317-77-4/RN)
L10 34 (139394-79-9/BI OR 139394-80-2/BI OR 139395-21-4/BI OR 302776-65-4/BI OR 302776-66-5/BI OR 302776-67-6/BI OR 302776-68-7/BI OR

302776-69-8/BI OR 302776-70-1/BI OR 302776-73-4/BI OR 363602-14-6
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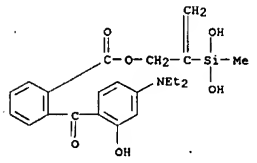
682349-16-2/BI OR 682349-17-3/BI OR 682349-22-0/BI OR 682349-23-1
/BI OR 682349-24-2/BI OR 682349-25-3/BI OR 682349-26-4/BI OR
682349-27-5/BI OR 682349-28-6/BI OR 682349-29-7/BI OR 682349-30-0
/BI OR 682349-31-1/BI OR 682349-32-2/BI OR 682349-33-3/BI OR
682349-34-4/BI OR 876758-12-2/BI OR 901120-84-1/BI OR 916463-31-5
/BI OR 916463-32-6/BI OR 95317-77-4/BI)

=> d 1-34

L10 ANSWER 1 OF 34 REGISTRY COPYRIGHT 2007 ACS on STN
RN 916463-32-6 REGISTRY
ED Entered STN: 28 Dec 2006
CN Propanedioic acid, 2-[[4-[(2-(dihydroxymethylsilyl)-2-propen-1-yl]oxy]phenyl]methylene]-, 1,3-diethyl ester, polymer with 2-(dihydroxymethylsilyl)-2-propen-1-yl 2-[4-(diethylamino)-2-hydroxybenzoyl]benzoate and 1,1-dimethylsilanediol (CA INDEX NAME)
MF (C22 H27 N O6 Si . C18 H24 O7 Si . C2 H8 O2 Si)x
CI PMS
PCT Polyether, Polystyrene, Polyvinyl
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

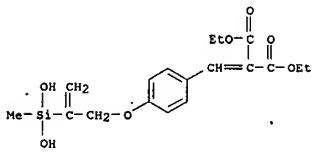
CM 1

CRN 916463-31-5
CMF C22 H27 N O6 Si



CM 2

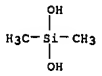
CRN 177955-89-4
CMF C18 H24 O7 Si



CM 3

CRN 1066-42-8
CMF C2 H8 O2 Si

L10 ANSWER 1 OF 34 REGISTRY COPYRIGHT 2007 ACS on STN (Continued)

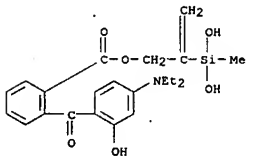


1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

when $n_1 = 1$, R_3 = het
– no art

when $n_1 = 2\text{-}4$

L10 ANSWER 2 OF 34 REGISTRY COPYRIGHT 2007 ACS on STN
RN 916463-31-5 REGISTRY
ED Entered STN: 28 Dec 2006
CN Benzoic acid, 2-[4-(diethylamino)-2-hydroxybenzoyl]-, 2-(dihydroxymethylsilyl)-2-propen-1-yl ester (CA INDEX NAME)
MF C22 H27 N O6 Si
CI COM
SR CA

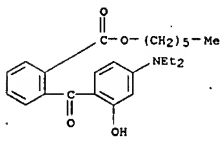


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L10 ANSWER 3 OF 34 REGISTRY COPYRIGHT 2007 ACS on STN
RN 901120-84-1 REGISTRY
ED Entered STN: 14 Aug 2006
CN Benzoic acid, 2-[4-(diethylamino)-2-hydroxybenzoyl]-, hexyl ester, compd. with 2-ethylhexyl 3-(4-methoxyphenyl)-2-propenoate (1:1) (9CI) (CA INDEX NAME)
OTHER NAMES:
CN Uvinul A plus B
MF C24 H31 N O4 . C18 H26 O3
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

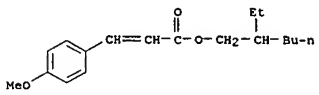
CM 1

CRN 302776-68-7
CMF C24 H31 N O4



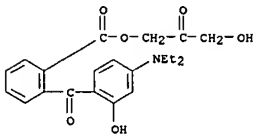
CM 2

CRN 5466-77-3
CMF C18 H26 O3



1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

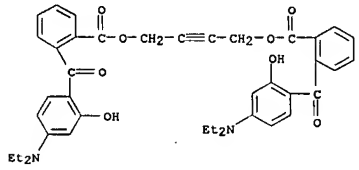
L10 ANSWER 4 OF 34 REGISTRY COPYRIGHT 2007 ACS on STN
RN 876758-12-2 REGISTRY
ED Entered STN: 14 Mar 2006
CN Benzoic acid, 2-[4-(diethylamino)-2-hydroxybenzoyl]-, 3-hydroxy-2-oxopropyl ester (9CI) (CA INDEX NAME)
MF C21 H23 N O6
SR CA
LC STN Files: CA, CAPLUS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

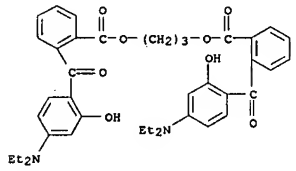
L10 ANSWER 5 OF 34 REGISTRY COPYRIGHT 2007 ACS on STN
RN 682349-34-4 REGISTRY
ED Entered STN: 17 May 2004
CN Benzoic acid, 2-[4-(diethylamino)-2-hydroxybenzoyl]-, 2-butyne-1,4-diyl ester (9CI) (CA INDEX NAME)
MF C40 H40 N2 O8
SR CA
LC STN Files: CA, CAPLUS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

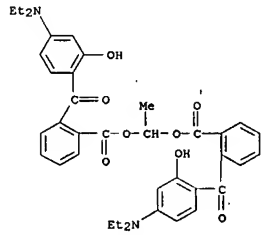
L10 ANSWER 6 OF 34 REGISTRY COPYRIGHT 2007 ACS on STN
RN 682349-33-3 REGISTRY
ED Entered STN: 17 May 2004
CN Benzoic acid, 2-[4-(diethylamino)-2-hydroxybenzoyl]-, 1,3-propanediyl ester (9CI) (CA INDEX NAME)
MF C39 H42 N2 O8
SR CA
LC STN Files: CA, CAPLUS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

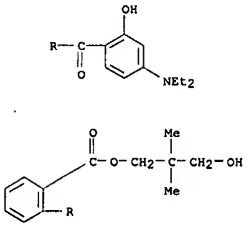
L10 ANSWER 7 OF 34 REGISTRY COPYRIGHT 2007 ACS on STN
RN 682349-32-2 REGISTRY
ED Entered STN: 17 May 2004
CN Benzoic acid, 2-[4-(diethylamino)-2-hydroxybenzoyl]-, ethylidene ester (9CI) (CA INDEX NAME)
MF C38 H40 N2 O8
SR CA
LC STN Files: CA, CAPLUS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L10 ANSWER 8 OF 34 REGISTRY COPYRIGHT 2007 ACS on STN
RN 682349-31-1 REGISTRY
ED Entered STN: 17 May 2004
CN Benzoic acid, 2-[4-(diethylamino)-2-hydroxybenzoyl]-, 3-hydroxy-2,2-dimethylpropyl ester (9CI) (CA INDEX NAME)
MF C23 H29 N O5
SR CA
LC STN Files: CA, CAPLUS

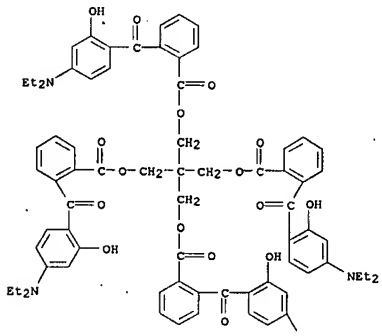


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L10 ANSWER 9 OF 34 REGISTRY COPYRIGHT 2007 ACS on STN
RN 682349-30-0 REGISTRY
ED Entered STN: 17 May 2004
CN Benzoic acid, 2-[4-(diethylamino)-2-hydroxybenzoyl]-, 2,2-bis[[[2-[4-(diethylamino)-2-hydroxybenzoyl]benzoyl]oxy]methyl]-1,3-propanediyl ester (9CI) (CA INDEX NAME)
MF C77 H80 N4 O16
SR CA
LC STN Files: CA, CAPLUS

PAGE 1-A

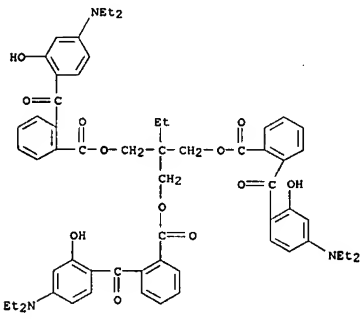


PAGE 2-A

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

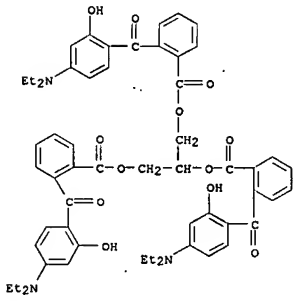
L10 ANSWER 10 OF 34 REGISTRY COPYRIGHT 2007 ACS on STN
RN 682349-29-7 REGISTRY
ED Entered STN: 17 May 2004
CN Benzoic acid, 2-[4-(diethylamino)-2-hydroxybenzoyl]-, 2-[[[2-[4-(diethylamino)-2-hydroxybenzoyl]benzoyl]oxy]methyl]-2-ethyl-1,3-propanediyl ester (9CI) (CA INDEX NAME)
MF C60 H65 N3 O12
SR CA
LC STN Files: CA, CAPLUS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

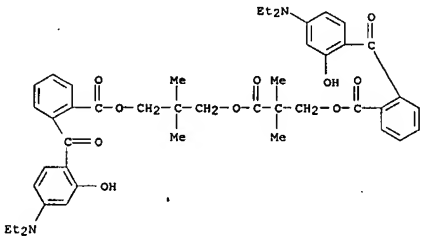
L10 ANSWER 11 OF 34 REGISTRY COPYRIGHT 2007 ACS on STN
RN 682349-28-6 REGISTRY
ED Entered STN: 17 May 2004
CN Benzoic acid, 2-[4-(diethylamino)-2-hydroxybenzoyl]-, 1,2,3-propanetriyl ester (9CI) (CA INDEX NAME)
MF C57 H59 N3 O12
SR CA
LC STN Files: CA, CAPLUS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

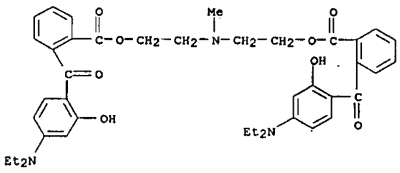
L10 ANSWER 12 OF 34 REGISTRY COPYRIGHT 2007 ACS on STN
RN 682349-27-5 REGISTRY
ED Entered STN: 17 May 2004
CN Benzoic acid, 2-[4-(diethylamino)-2-hydroxybenzoyl]-, 3-[3-[[2-[4-(diethylamino)-2-hydroxybenzoyl]benzoyl]oxy]-2,2-dimethyl-1-oxopropoxy]-2,2-dimethylpropyl ester (9CI) (CA INDEX NAME)
MF C46 H54 N2 O10
SR CA
LC STN Files: CA, CAPLUS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

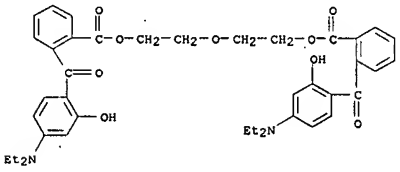
L10 ANSWER 13 OF 34 REGISTRY COPYRIGHT 2007 ACS on STN
RN 682349-26-4 REGISTRY
ED Entered STN: 17 May 2004
CN Benzoic acid, 2-[4-(diethylamino)-2-hydroxybenzoyl]-, (methylimino)di-2,1-ethanediyl ester (9CI) (CA INDEX NAME)
MF C41 H47 N3 O8
SR CA
LC STN Files: CA, CAPLUS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

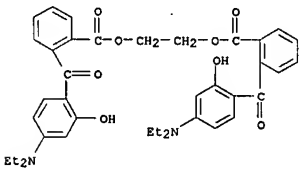
L10 ANSWER 14 OF 34 REGISTRY COPYRIGHT 2007 ACS on STN
RN 682349-25-3 REGISTRY
ED Entered STN: 17 May 2004
CN Benzoic acid, 2-[4-(diethylamino)-2-hydroxybenzoyl]-, oxydi-2,1-ethanediyl ester (9CI) (CA INDEX NAME)
MF C40 H44 N2 O9
SR CA
LC STN Files: CA, CAPLUS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

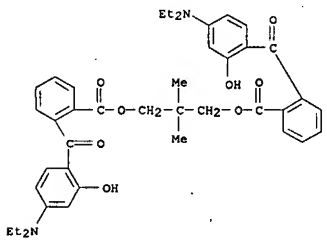
L10 ANSWER 15 OF 34 REGISTRY COPYRIGHT 2007 ACS on STN
RN 682349-24-2 REGISTRY
ED Entered STN: 17 May 2004
CN Benzoic acid, 2-[4-(diethylamino)-2-hydroxybenzoyl]-, 1,2-ethanediyl ester (9CI) (CA INDEX NAME)
MF C38 H40 N2 O8
SR CA
LC STN Files: CA, CAPLUS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

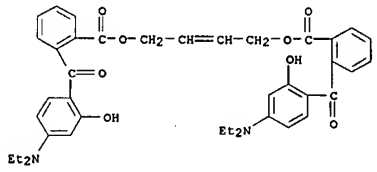
L10 ANSWER 16 OF 34 REGISTRY COPYRIGHT 2007 ACS on STN
RN 682349-23-1 REGISTRY
ED Entered STN: 17 May 2004
CN Benzoic acid, 2-[4-(diethylamino)-2-hydroxybenzoyl]-, 2,2-dimethyl-1,3-propanediyl ester (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 1,3-Bis[[2-[4-(diethylamino)-2-hydroxybenzoyl]benzoyl]oxy]-2,2-dimethylpropane
MF C41 H46 N2 O8
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

5 REFERENCES IN FILE CA (1907 TO DATE)
5 REFERENCES IN FILE CAPLUS (1907 TO DATE)

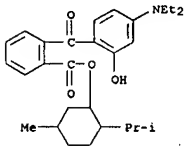
L10 ANSWER 17 OF 34 REGISTRY COPYRIGHT 2007 ACS on STN
RN 682349-22-0 REGISTRY
ED Entered STN: 17 May 2004
CN Benzoic acid, 2-[4-(diethylamino)-2-hydroxybenzoyl]-, 2-butene-1,4-diyl ester (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 1,4-Bis[[2-[4-(diethylamino)-2-hydroxybenzoyl]benzoyl]oxy]-2-butene
MF C40 H42 N2 O8
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

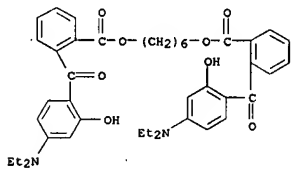
L10 ANSWER 18 OF 34 REGISTRY COPYRIGHT 2007 ACS on STN
RN 682349-17-3 REGISTRY
ED Entered STN: 17 May 2004
CN Benzoic acid, 2-[4-(diethylamino)-2-hydroxybenzoyl]-, 5-methyl-2-(1-methylethyl)cyclohexyl ester (9CI) (CA INDEX NAME)
MF C28 H37 N O4
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

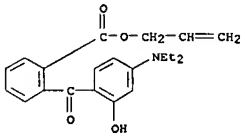
L10 ANSWER 19 OF 34 REGISTRY COPYRIGHT 2007 ACS on STN
RN 682349-16-2 REGISTRY
ED Entered STN: 17 May 2004
CN Benzoic acid, 2-[4-(diethylamino)-2-hydroxybenzoyl]-, 1,6-hexanediyl ester (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 1,6-Bis[[2-[4-(diethylamino)-2-hydroxybenzoyl]benzoyl]oxy]hexane
MF C42 H48 N2 O8
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

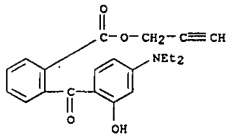
L10 ANSWER 20 OF 34 REGISTRY COPYRIGHT 2007 ACS on STN
RN 614755-89-4 REGISTRY
ED Entered STN: 10 Nov 2003
CN Benzoic acid, 2-[4-(diethylamino)-2-hydroxybenzoyl]-, 2-propen-1-yl ester (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Benzoic acid, 2-[4-(diethylamino)-2-hydroxybenzoyl]-, 2-propenyl ester (9CI)
MF C21 H23 N O4
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

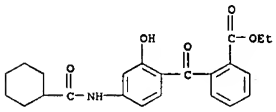
L10 ANSWER 21 OF 34 REGISTRY COPYRIGHT 2007 ACS on STN
RN 614755-88-3 REGISTRY
ED Entered STN: 10 Nov 2003
CN Benzoic acid, 2-[4-(diethylamino)-2-hydroxybenzoyl]-, 2-propynyl ester (9CI) (CA INDEX NAME)
MF C21 H21 N O4
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L10 ANSWER 22 OF 34 REGISTRY COPYRIGHT 2007 ACS on STN
RN 470716-63-3 REGISTRY
ED Entered STN: 06 Nov 2002
CN Benzoic acid, 2-[4-[(cyclohexylcarbonyl)amino]-2-hydroxybenzoyl]-, ethyl ester (9CI) (CA INDEX NAME)
MF C23 H25 N O5
SR CA
LC STN Files: CA, CAPLUS



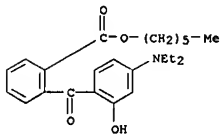
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L10 ANSWER 23 OF 34 REGISTRY COPYRIGHT 2007 ACS on STN
RN 363602-14-6 REGISTRY
ED Entered STN: 22 Oct 2001
CN Benzoic acid, 2-[4-(diethylamino)-2-hydroxybenzoyl]-, hexyl ester, mixt. with 2-ethylhexyl 2-cyano-3,3-diphenyl-2-propenoate (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 2-Propenoic acid, 2-cyano-3,3-diphenyl-, 2-ethylhexyl ester, mixt. contg. (9CI)
MF C24 H31 N O4 . C24 H27 N O2
CI MXS
SR CA
LC STN Files: CA, CAPLUS, USPAT2, USPATFULL

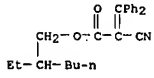
CM 1

CRN 302776-68-7
CMF C24 H31 N O4



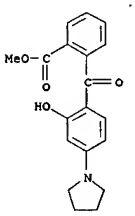
CM 2

CRN 6197-30-4
CMF C24 H27 N O2



1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

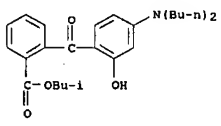
L10 ANSWER 24 OF 34 REGISTRY COPYRIGHT 2007 ACS on STN
RN 302776-73-4 REGISTRY
ED Entered STN: 14 Nov 2000
CN Benzoic acid, 2-[2-hydroxy-4-(1-pyrrolidinyl)benzoyl]-, methyl ester (9CI)
(CA INDEX NAME)
MF C19 H19 N O4
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

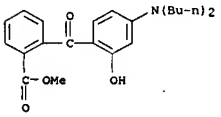
L10 ANSWER 25 OF 34 REGISTRY COPYRIGHT 2007 ACS on STN
RN 302776-70-1 REGISTRY
ED Entered STN: 14 Nov 2000
CN Benzoic acid, 2-[4-(dibutylamino)-2-hydroxybenzoyl]-, 2-methylpropyl ester
(9CI) (CA INDEX NAME)
MF C26 H35 N O4
SR CA
LC STN Files: CA, CAPLUS, USPAT2, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

5 REFERENCES IN FILE CA (1907 TO DATE)
5 REFERENCES IN FILE CAPLUS (1907 TO DATE)

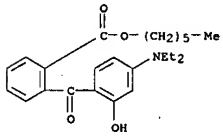
L10 ANSWER 26 OF 34 REGISTRY COPYRIGHT 2007 ACS on STN
RN 302776-69-8 REGISTRY
ED Entered STN: 14 Nov 2000
CN Benzoic acid, 2-[4-(dibutylamino)-2-hydroxybenzoyl]-, methyl ester (9CI)
(CA INDEX NAME)
MF C23 H29 N O4
SR CA
LC STN Files: CA, CAPLUS, USPAT2, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

5 REFERENCES IN FILE CA (1907 TO DATE)
5 REFERENCES IN FILE CAPLUS (1907 TO DATE)

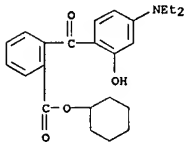
L10 ANSWER 27 OF 34 REGISTRY COPYRIGHT 2007 ACS on STN
RN 302776-68-7 REGISTRY
ED Entered STN: 14 Nov 2000
CN Benzoic acid, 2-[4-(diethylamino)-2-hydroxybenzoyl]-, hexyl ester (CA INDEX NAME)
OTHER NAMES:
CN Hexyl 2-[4-(diethylamino)-2-hydroxybenzoyl]benzoate
CN n-Hexyl 2-(4-Diethylamino-2-hydroxybenzoyl)benzoate
CN Uvinul A Plus
MF C24 H31 N O4
CI COM
SR CA
LC STN Files: CA, CAPLUS, CHEMLIST, IPA, TOXCENTER, USPAT2, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

150 REFERENCES IN FILE CA (1907 TO DATE)
3 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
152 REFERENCES IN FILE CAPLUS (1907 TO DATE)

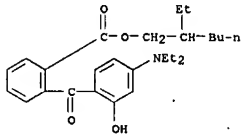
L10 ANSWER 28 OF 34 REGISTRY COPYRIGHT 2007 ACS on STN
RN 302776-67-6 REGISTRY
ED Entered STN: 14 Nov 2000
CN Benzoic acid, 2-[4-(diethylamino)-2-hydroxybenzoyl]-, cyclohexyl ester (9CI) (CA INDEX NAME)
MF C24 H29 N O4
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

5 REFERENCES IN FILE CA (1907 TO DATE)
5 REFERENCES IN FILE CAPLUS (1907 TO DATE)

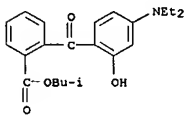
L10 ANSWER 29 OF 34 REGISTRY COPYRIGHT 2007 ACS on STN
RN 302776-66-5 REGISTRY
ED Entered STN: 14 Nov 2000
CN Benzoic acid, 2-[4-(diethylamino)-2-hydroxybenzoyl]-, 2-ethylhexyl ester (9CI) (CA INDEX NAME)
MF C26 H35 N O4
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

5 REFERENCES IN FILE CA (1907 TO DATE)
5 REFERENCES IN FILE CAPLUS (1907 TO DATE)

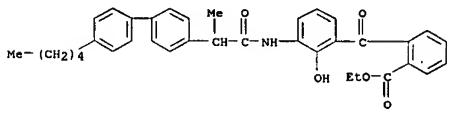
L10 ANSWER 30 OF 34 REGISTRY COPYRIGHT 2007 ACS on STN
RN 302776-65-4 REGISTRY
ED Entered STN: 14 Nov 2000
CN Benzoic acid, 2-[4-(diethylamino)-2-hydroxybenzoyl]-, 2-methylpropyl ester (9CI) (CA INDEX NAME)
MF C22 H27 N O4
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

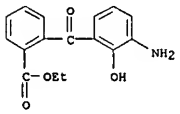
L10 ANSWER 31 OF 34 REGISTRY COPYRIGHT 2007 ACS on STN
RN 139395-21-4 REGISTRY
ED Entered STN: 06 Mar 1992
CN Benzoic acid, 2-[2-hydroxy-3-[[1-oxo-2-(4'-pentyl[1,1'-biphenyl]-4-yl)propyl]amino]benzoyl]-, ethyl ester (9CI) (CA INDEX NAME)
MF C36 H37 N O5
SR CA
LC STN Files: CA, CAPLUS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

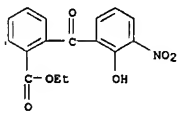
L10 ANSWER 32 OF 34 REGISTRY COPYRIGHT 2007 ACS on STN
RN 139394-80-2 REGISTRY
ED Entered STN: 06 Mar 1992
CN Benzoic acid, 2-(3-amino-2-hydroxybenzoyl)-, ethyl ester (9CI) (CA INDEX NAME)
MF C16 H15 N O4
SR CA
LC STN Files: CA, CAPLUS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

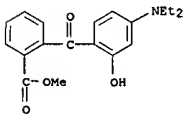
L10 ANSWER 33 OF 34 REGISTRY COPYRIGHT 2007 ACS on STN
RN 139394-79-9 REGISTRY
ED Entered STN: 06 Mar 1992
CN Benzoic acid, 2-(2-hydroxy-3-nitrobenzoyl)-, ethyl ester (9CI) (CA INDEX NAME)
MF C16 H13 N O6
SR CA
LC STN Files: CA, CAPLUS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L10 ANSWER 34 OF 34 REGISTRY COPYRIGHT 2007 ACS on STN
RN 95317-77-4 REGISTRY
ED Entered STN: 16 Mar 1985
CN Benzoic acid, 2-[4-(diethylamino)-2-hydroxybenzoyl]-, methyl ester (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Benzoic acid, o-[4-(diethylamino)salicyloyl]-, methyl ester (7CI)
MF C19 H21 N O4
LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, USPAT2, USPATFULL
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

8 REFERENCES IN FILE CA (1907 TO DATE)
8 REFERENCES IN FILE CAPLUS (1907 TO DATE)
2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

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=> d his

     (FILE 'HOME' ENTERED AT 11:11:29 ON 18 APR 2007)

     FILE 'REGISTRY' ENTERED AT 11:11:37 ON 18 APR 2007
L1             STRUCTURE UPLOADED
L2           9 S L1 FULL

     FILE 'CAPLUS' ENTERED AT 11:12:01 ON 18 APR 2007
L3           5 S L2
L4             STRUCTURE UPLOADED
               S L4

     FILE 'REGISTRY' ENTERED AT 11:13:43 ON 18 APR 2007
L5         272 S L4 FULL

     FILE 'CAPLUS' ENTERED AT 11:13:43 ON 18 APR 2007
L6         665 S L5 FULL
L7             STRUCTURE UPLOADED
               S L7

     FILE 'REGISTRY' ENTERED AT 11:14:18 ON 18 APR 2007
L8          34 S L7 FULL SUB=L5

     FILE 'CAPLUS' ENTERED AT 11:14:19 ON 18 APR 2007
L9         166 S L8 SUBSET=L5 FULL

     FILE 'REGISTRY' ENTERED AT 11:15:32 ON 18 APR 2007
               SEL RN L8
L10         34 S E1-E34

=> fil caplus
COST IN U.S. DOLLARS                        SINCE FILE      TOTAL
                                              ENTRY    SESSION
FULL ESTIMATED COST                           78.47     493.15

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)  SINCE FILE      TOTAL
                                              ENTRY    SESSION
CA SUBSCRIBER PRICE                            0.00      -3.90

FILE 'CAPLUS' ENTERED AT 11:28:15 ON 18 APR 2007
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2007 AMERICAN CHEMICAL SOCIETY (ACS)
```

– 10 dimers $n_1 = 2$ 13 species wherein A = O
2 trimers $n_1 = 3$ $n_1 = 2\text{-}4$
1 quad $n_1 = 4$

FILE COVERS 1907 - 18 Apr 2007 VOL 146 ISS 17

FILE LAST UPDATED: 16 Apr 2007 (20070416/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply.
They are available for your review at:

http://www.cas.org/infopolicy.html

```
=> s L6 and (UV)
        519811 UV
L11        117 L6 AND (UV)

=> s L6 and (UV or sun)
        519811 UV
         57565 SUN
L12        121 L6 AND (UV OR SUN)

=> s L6 and (UV or sun?)
        519811 UV
        136075 SUN?
L13        177 L6 AND (UV OR SUN?)

=>
Uploading C:\Program Files\Stnexp\Queries\10537940\april 4.str
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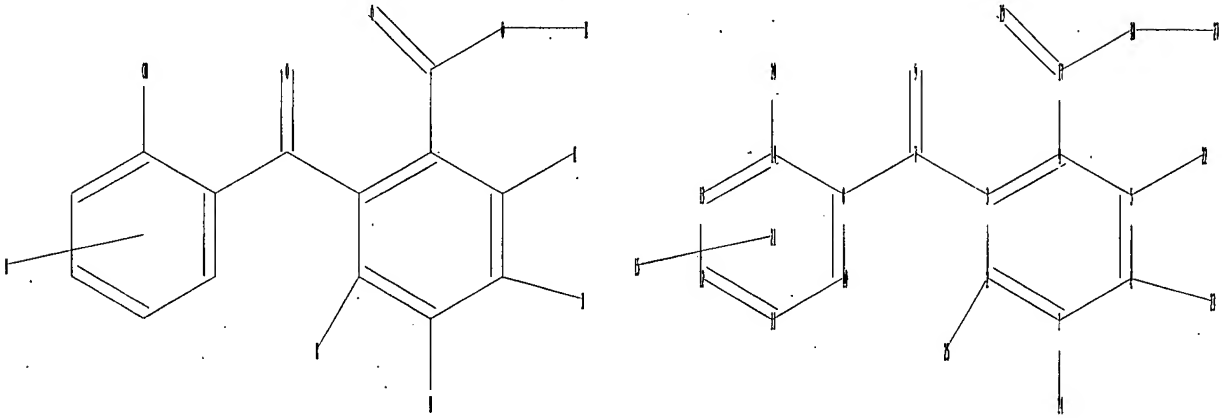


```
chain nodes :
7  9  17  18  19  20  22  23  24  25  27
ring nodes :
1  2  3  4  5  6  8  10  11  12  13  14
ring/chain nodes :
15
chain bonds :
1-24  2-25  3-7  4-17  5-22  6-23  7-8  7-9  14-20  17-18  17-19  18-27
ring bonds :
1-2  1-6  2-3  3-4  4-5  5-6  8-10  8-14  10-11  11-12  12-13  13-14
exact/norm bonds :
7-9  14-20
exact bonds :
1-24  2-25  3-7  4-17  5-22  6-23  7-8  18-27
normalized bonds :
1-2  1-6  2-3  3-4  4-5  5-6  8-10  8-14  10-11  11-12  12-13  13-14  17-18  17-19
isolated ring systems :
containing 1 : 8 :
```

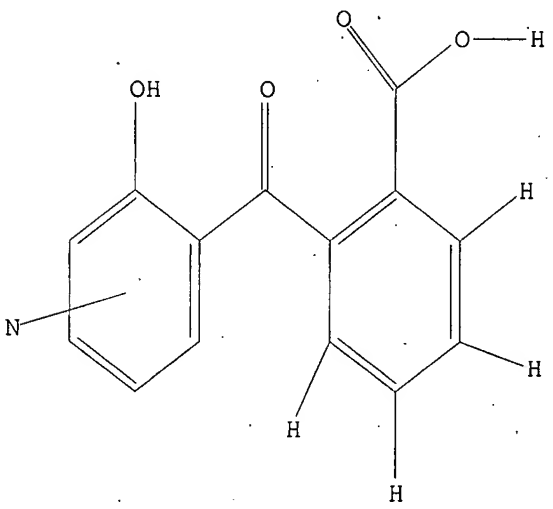
G1:Cy,Ak

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:Atom 9:CLASS 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:CLASS 17:CLASS 18:CLASS 19:CLASS
20:CLASS 21:Atom 22:CLASS 23:CLASS 24:CLASS 25:CLASS 27:CLASS

L14 STRUCTURE UPLOADED

=> d
L14 HAS NO ANSWERS
L14 STR

A=O
R_3=H



G1 Cy,Ak

Structure attributes must be viewed using STN Express query preparation.

=> s l14 full sub=15
REGlstRY INITIATED
Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

FULL SUBSET SEARCH INITIATED 11:32:37 FILE 'REGISTRY'
FULL SUBSET SCREEN SEARCH COMPLETED - 240 TO ITERATE

100.0% PROCESSED 240 ITERATIONS 238 ANSWERS
SEARCH TIME: 00.00.01

```
L15          238 SEA SUB=L5 SSS FUL L14


SUBSET IS IGNORED AS A SCOPE FOR THIS SEARCH
L16          514 L15

=> s l16 and (UV absorber)
         519811 UV
          42326 ABSORBER
           7270 UV ABSORBER
                  (UV(W)ABSORBER)
L17            3 L16 AND (UV ABSORBER)

=> s l16 and (UV)
         519811 UV
L18           25 L16 AND (UV)

=> d ibib abs hitstr L18 1-25
```

A=0
R_3=H
a uv (claim 29)

L18 ANSWER 1 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2006:1279755 CAPLUS
DOCUMENT NUMBER: 146:49764
TITLE: Preparation of polysiloxane sunscreens
INVENTOR(S): Berg-Schultz, Katja; Poschalko, Alexander; Vollhardt, Juergen H.
PATENT ASSIGNEE(S): Dsm Ip Assets B.V., Neth.
SOURCE: PCT Int. Appl., 37pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

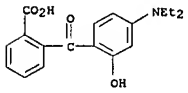
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006128614	A1	20061207	WO 2006-EP4879	20060523

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

PRIORITY APPLN. INFO.: EP 2005-11678 A 20050531

AB The present invention relates to novel sunscreens on the basis of polysiloxanes, to their preparation and to their use, especially in formulations for the protection against harmful effects of sunlight. A polysiloxane copolymer containing 4-[(2,2-diethoxycarbonyl]vinyl]phenoxymethyl and 2-(4-diethylamino-2-hydroxybenzoyl)benzoyloxymethyl groups was prepared and used in sunscreen formulations.

IT 5809-23-4, 2-(4-Diethylamino-2-hydroxybenzoyl)benzoic acid
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of polysiloxane sunscreens)
RN 5809-23-4 CAPLUS
CN Benzoic acid, 2-[4-(diethylamino)-2-hydroxybenzoyl]- (CA INDEX NAME)



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L18 ANSWER 1 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

L18 ANSWER 2 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2005:1075592 CAPLUS
DOCUMENT NUMBER: 143:372818
TITLE: UV absorbing chromophores covalently bonded to hyperbranched polymers for sunscreens
INVENTOR(S): Poschalko, Alexander; Huber, Ulrich; Schehlmann, Volker
PATENT ASSIGNEE(S): DSM Ip Assets B. V., Neth.
SOURCE: PCT Int. Appl., 60 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005092282	A1	20051006	WO 2005-EP3117	20050323

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

AU 2005226922	A1	20051006	AU 2005-226922	20050323
EP 1727515	A1	20061206	EP 2005-716337	20050323

R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR

CN 1937999	A	20070328	CN 2005-80009487	20050323

PRIORITY APPLN. INFO.: EP 2004-7201 A 20040325
WO 2005-EP3117 W 20050323

AB The invention provides a conjugate comprising a hyperbranched polymer covalently bonded to at least three UV absorbing chromophores having an UV absorption maximum λmax ≥ 270 nm. The conjugate is an effective and safe sunscreen which can advantageously be used in cosmetic compns. For example, poly(glycerol-b-propylene oxide) (5.0 g, 4.6 mmol) was activated with methanesulfonyl chloride (3.75 mL, 48.5 mmol) to afford 7.5 g mesylated poly(glycerol-b-propylene oxide). A polymeric UV filter was obtained by attaching 8.9 g of 4-(1,3-benzoxazol-2-yl)phenol to 7.48 g of the mesylated polymer to yield 4.82 g of the hyperbranched polymer chromophore with the theor. chromophore content of 64%. A composition was prepared by mixing the hyperbranched polymer chromophore 5.0 g, Brij 72 2.0 g, Brij 721 2.0 g, Lanette O 2.0 g, Estol GMM 3650 2.0 g, BHT 0.05 g, and Phenonip 0.8 g at 80°, adding a preheated solution of glycerin 4.0 g and EDTA BD 0.1 g in water 62.95 g, and subsequently 10% aqueous KOH 0.1 g as well as Sepigel 305 1.0 g. An average SPF was 6.6, compared to 6.8 of Parsol MCX.

IT 866139-98-2P
RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(UV absorbing chromophores covalently bonded to hyperbranched polymers for sunscreens)
RN 866139-98-2 CAPLUS
CN Hybrane D 2000, 2-[4-(diethylamino)-2-hydroxybenzoyl]benzoate 4-(dimethylamino)benzoate (9CI) (CA INDEX NAME)

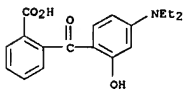
CM 1

CRN 367513-09-5
CMF Unspecified
CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

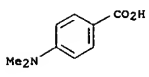
CM 2

CRN 5809-23-4
CMF C18 H19 N O4

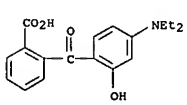


CM 3

CRN 619-84-1
CMF C9 H11 N O2



IT 5809-23-4, 2-(4-Diethylamino-2-hydroxybenzoyl)benzoic acid
RL: RCT (Reactant); RACT (Reactant or reagent)
(UV absorbing chromophores covalently bonded to hyperbranched polymers for sunscreens)
RN 5809-23-4 CAPLUS
CN Benzoic acid, 2-[4-(diethylamino)-2-hydroxybenzoyl]- (CA INDEX NAME)

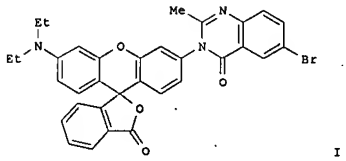


REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS

L18 ANSWER 2 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

L18 ANSWER 2 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L18 ANSWER 3 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2005:1066708 CAPLUS
DOCUMENT NUMBER: 145:46021
TITLE: Synthesis and characterization of bromoquinazolinone substituted spiro[isobenzofuran-1,9'-xanthene]-3-ones
AUTHOR(S): Patel, S. V.; Patel, M. P.; Patel, R. G.
CORPORATE SOURCE: Department of Chemistry, Sardar Patel University, Gujarat, 388 120, India
SOURCE: Journal of the Iranian Chemical Society (2005), 2(3), 220-225
CODEN: JICSCJ; ISSN: 1735-207X
PUBLISHER: Iranian Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
GI

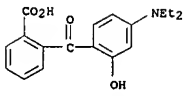


I

AB Some bromoquinazolinone substituted fluoran compds., e.g., I, were synthesized by the reaction of the keto acid, 2-(4-diethylamino-2-hydroxybenzoyl)benzoic acid with different 3-(hydroxyphenyl)-6-bromo-4(3H)-quinazolinones in the presence of a dehydration condensing agent like sulfuric acid. Various quinazolinones were prepared by reacting different monobromo/dibromobenzoxazine-4-ones with 3-aminophenol or 4-aminophenol in the presence of pyridine as a solvent. All the synthesized fluoran compds. were identified by conventional methods such as m.p., IR, 1H NMR, 13C NMR, elemental anal. and UV-visible spectroscopy in organic solvents and 95% acetic acid. All these colorless fluorans develop a color in contact with electron accepting compds.

IT 5809-23-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of [diethylamino(hydroxy)benzoyl]benzoic acid via acylation of diethylaminophenyl with phthalic anhydride in the preparation of fluorans)
RN 5809-23-4 CAPLUS
CN Benzoic acid, 2-[4-(diethylamino)-2-hydroxybenzoyl]- (CA INDEX NAME)

L18 ANSWER 3 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



REFERENCE COUNT: 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE
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L18 ANSWER 4 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2005:1052994 CAPLUS
DOCUMENT NUMBER: 145:103621
TITLE: Synthesis and characterization of novel substituted spiro[isobenzofuran-1(3H),9'-xanthene]-3-ones
AUTHOR(S): Patel, Sachin V.; Patel, Manish P.; Patel, Rangan G.
CORPORATE SOURCE: Department of Chemistry, Sardar Patel University, Vallabh Vidyanagar, 388 120, India
SOURCE: Journal of the Serbian Chemical Society (2005), 70(7), 931-936
CODEN: JSCSEN; ISSN: 0352-5139
PUBLISHER: Serbian Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 145:103621
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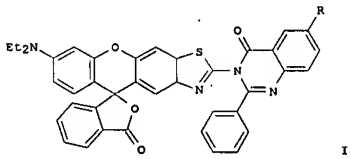
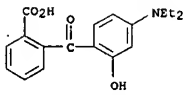


I

AB The ketoacid, 2-(4-diethylamino-2-hydroxybenzoyl)benzoic acid, prepared from N,N-diethyl-m-aminophenol and phthalic anhydride, reacted with various substituted 3-[6-methoxybenzothiazol-2-yl]-4(3H)-quinazolinones in the presence of a dehydration condensing agent to afford novel spiro[isobenzofuran-1(3H),9'-xanthene]-3-ones, e.g., I (R = H or Br). The benzothiazolyl quinazolinones were synthesized by reacting 2-amino-6-methoxybenzothiazole with various substituted benzoxazinones. All compds. were characterized by m.p. determination, elemental anal., IR, NMR and UV-visible spectroscopy. All the fluoran compds. were colorless or nearly colorless and produce color in the presence of acidic media.

IT 5809-23-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of diethylamino(hydroxybenzoyl)benzoic acid via aroylation of (diethylamino)phenol with phthalic anhydride)
RN 5809-23-4 CAPLUS
CN Benzoic acid, 2-[4-(diethylamino)-2-hydroxybenzoyl]- (CA INDEX NAME)

L18 ANSWER 4 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



REFERENCE COUNT: 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE
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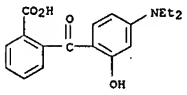
L18 ANSWER 5 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2005:48098 CAPLUS
DOCUMENT NUMBER: 143:9180
TITLE: 3,6-Disubstituted fluorans containing 4(3H)-quinazolinon-3-yl, diethyl amino groups and their application in reversible thermochromic materials
AUTHOR(S): Patel, Ritesh G.; Patel, Manish P.; Patel, Ranjan G.
CORPORATE SOURCE: Department of Chemistry, Sardar Patel University, Gujarat, 388 120, India
SOURCE: Dyes and Pigments (2005), 66(1), 7-13
CODEN: DYPIDX; ISSN: 0143-7208
PUBLISHER: Elsevier Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 143:9180
AB 3,6-Disubstituted fluorans containing 4(3H)-quinazolinon-3-yl and diethylamino
groups were synthesized by reacting 4-(diethylamino)-2-hydroxy-2'-carboxybenzophenone with various 4(3H)-quinazolinones. These 4(3H)-quinazolinones were derived by reacting various substituted benzoxazin-4-ones with 3-aminophenol. All the fluorans have been identified by conventional methods (IR, 1H NMR), elemental anal., and UV-visible spectroscopy in organic solvent and 95% acetic acid. These fluorans have been applied in reversible thermochromic materials.
IT 5809-23-4, 4-(Diethylamino)-2-hydroxy-2'-carboxybenzophenone
RL: RCT (Reactant); RACT (Reactant or reagent)
(starting material; preparation of fluorans containing quinazolinonyl groups and
their application in reversible thermochromic materials)
RN 5809-23-4 CAPLUS
CN Benzoic acid, 2-[4-(diethylamino)-2-hydroxybenzoyl]- (CA INDEX NAME)



REFERENCE COUNT: 50 THERE ARE 50 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L18 ANSWER 6 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2004:515467 CAPLUS
DOCUMENT NUMBER: 141:71355
TITLE: Preparation of amino substituted hydroxyphenyl benzophenone derivatives as UV absorbers
INVENTOR(S): Haase, Juerg; Ehlis, Thomas; Borsos, Elek; Mueller, Stefan
PATENT ASSIGNEE(S): Ciba Specialty Chemicals Holding Inc., Switz.
SOURCE: PCT Int. Appl., 50 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

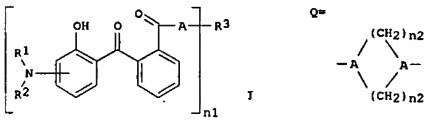
Instant App

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004052837	A2	20040624	WO 2003-EP50937	20031203
WO 2004052837	A3	20040910		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2003298343	A1	20040630	AU 2003-298343	20031203
EP 1569893	A2	20050907	EP 2003-796081	20031203
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
BR 2003016607	A	20051011	BR 2003-16607	20031203
CN 1726184	A	20060125	CN 2003-80105885	20031203
JP 2006509834	T	20060323	JP 2005-502323	20031203
US 2006018846	A1	20060126	US 2005-537940	20050607
PRIORITY APPLN. INFO.:			EP 2002-406093 A	20021212
			CH 2003-1113 A	20030625
			EP 2003-102297 A	20030725
			WO 2003-EP50937 W	20031203

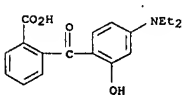
OTHER SOURCE(S): MARPAT 141:71355
GI

12/12/02

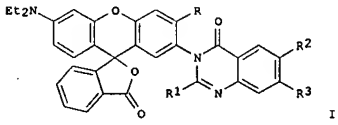
L18 ANSWER 6 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



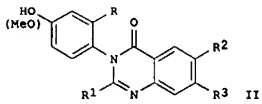
AB Described are aminohydroxybenzophenonecarboxamide derivs. of formula (I) [wherein R1, R2 = independently C1-20 alkyl, C2-20 alkenyl, C3-10 cycloalkyl, C3-10 C3-C10 cycloalkenyl; or R1 and R2 together with the linking nitrogen atom form a 5- or 6-membered heterocyclic ring; n1 = 1-4;
when n1 = 1, R3 = saturated or unsatd. heterocyclic radical, hydroxy-C1-C5
alkyl, cyclohexyl optionally substituted with one or more C1-5 alkyl, Ph optionally substituted with a heterocyclic radical, aminocarbonyl, C1-5 alkylcarboxy; when n1 = 2, R3 = alkylene, cycloalkylene or alkenylene radical which is optionally substituted by a carbonyl or carboxy group; or
R3 together with A forms a bivalent radical of the formula Q; wherein n2 =
1-3; when n1 = 3, R3 = alkanetriyl radical; when n1 = 4, R3 = alkanetetrayl radical; A = O, N(R5); R5 = H, C1-5 alkyl, hydroxy-C1-5 alkyl]. These compds. are useful as UV filters in sunscreen applications, preferably for the protection of human and animal hairs and from the damage of UV radiation as well as cosmetic compns. comprising these compds. Thus, a solution of 10.6 g 3-diethylaminodibenzooxepin (preparation given) in 20 mL diethylene glycol di-Me
ether was added to a suspension of 7.2 g 2-(4-aminophenyl)-6-methylbenzothiazole are suspended in 60 mL diethylene glycol di-Me ether at room temperature under stirring, heated to 90°, and allowed to react for 4 h to give 7.3 g N-[4-(6-methylbenzothiazol-2-yl)phenyl]-2-(4-diethylamino-2-hydroxybenzoyl)benzamide.
IT 5809-23-4, 2-(4-Diethylamino-2-hydroxybenzoyl)benzoic acid
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of amino substituted hydroxyphenyl benzophenone derivs. as
UV absorbers in sunscreen applications)
RN 5809-23-4 CAPLUS
CN Benzoic acid, 2-[4-(diethylamino)-2-hydroxybenzoyl]- (CA INDEX NAME)



L18 ANSWER 7 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2004:484164 CAPLUS
DOCUMENT NUMBER: 141:379884
TITLE: Synthesis and characterization of chromogenic fluoran compounds containing 4-ketoquinazolinone moieties
AUTHOR(S): Patel, Ritesh G.; Patel, Manish P.; Patel, Ranjan G.
CORPORATE SOURCE: Department of Chemistry, Sardar Patel University, Vallabh Vidyanagar, 388 120, India
SOURCE: Journal of the Serbian Chemical Society (2004), 69(5), 327-333
CODEN: JSCSEN; ISSN: 0352-5139
PUBLISHER: Serbian Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 141:379884
GI

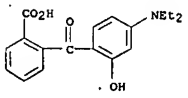


I



II

AB Chromogenic fluoran compds. containing 4-ketoquinazolinone I (R = H, NO2, R1 = Me, Ph, CH2Cl, and Bn, R2 = R3 = H; R = H, NO2, R1 = Me, R2 = NO2, R3 = Cl) were synthesized by reacting 2-(4-diethylamino-2-hydroxybenzoyl)benzoic acid with various substituted 4-ketoquinazolinones II in the presence of sulfuric acid. The 4-ketoquinazolinones were obtained by reacting various substituted benzoxazin-4-ones with 4-aminophenol or 2-nitro-p-anisidine. All the synthesized derivs. were identified by conventional methods, such as mp, elemental anal., IR, 1H-NMR, and UV-visible spectroscopy in organic solvent and 95 % acetic acid. All the fluoran compds. develop color on contact with acidic or electron-accepting compds.
IT 5809-23-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. of [diethylamino(hydroxy)benzoyl]benzoic acid as a starting material to fluorans via condensation of diethylaminophenol with phthalic anhydride)
RN 5809-23-4 CAPLUS
CN Benzoic acid, 2-[4-(diethylamino)-2-hydroxybenzoyl]- (CA INDEX NAME)



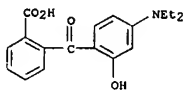
REFERENCE COUNT: 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L18 ANSWER 8 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2004:60380 CAPLUS
DOCUMENT NUMBER: 140:111845
TITLE: Production of UV light absorbing polysiloxanes for use in sunscreen compositions
INVENTOR(S): Berg-Schultz, Katja; Huber, Ulrich
PATENT ASSIGNEE(S): DSM Ip Assets B.V., Neth.
SOURCE: PCT Int. Appl., 33 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004007592	A1	20040122	WO 2003-EP4892	20030509
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2003222850	A1	20040202	AU 2003-222850	20030509
EP 1521798	A1	20050413	EP 2003-718801	20030509
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
CN 1668675	A	20050914	CN 2003-816794	20030509
JP 2005533141	T	20051104	JP 2004-520366	20030509
IN 2004CN03081	A	20060217	IN 2004-CN3081	20041231
US 2006160976	A1	20060720	US 2005-521629	20050930
PRIORITY APPLN. INFO.:			EP 2002-15849 A	20020716
			WO 2003-EP4892 W	20030509

AB Functionalized trimethylsilyl-terminated polysiloxanes comprise in arbitrary order (a) 2-200 elements of the formulas -OSi(CH3)[CH(CH3)R1]-, -OSi(CH3)(CH2CH2-R1)-, -OSi(CH3)[C(=CH2)R1]-, -OSi(CH3)[CH=CH3-R1]-, where R1 is a UV light-absorbing group, (b) 2-200 elements of the formulas -OSi(CH3)[CH(CH3)R2]-, -OSi(CH3)(CH2CH2-R2)-, -OSi(CH3)[C(=CH2)R2]-, -OSi(CH3)[CH=CH3-R2]-, where R2 is hydrogen or a lipophilic group, (c) optionally, 1-100 elements of the formulas -OSi(CH3)[CH(CH3)R3]-, -OSi(CH3)(CH2CH2-R3)-, -OSi(CH3)[C(=CH2)R3]-, -OSi(CH3)[CH=CH3-R3]-, where R3 is a group able to form ionic or hydrogen bonds, and (d) optionally, 1-20 elements of the formula -O-SiH(CH3)-. The UV light-absorbing polysiloxanes are used in sunscreen compns. for protection of human skin and/or hair. Thus, a UV light-absorbing polysiloxane was produced by hydrosilylation reaction between trimethylsilyl-terminated polymethylsiloxane (PS 118) and n-Bu vinyl ether and 2-(4-prop-2-ynyloxyphenyl)benzoxazole.
IT 5809-23-4, 2-(4-Diethylamino-2-hydroxybenzoyl)benzoic acid
RL: RCT (Reactant); RACT (Reactant or reagent)
(production of UV light-absorbing polysiloxanes for use in sunscreen compns.)

L18 ANSWER 8 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
RN 5809-23-4 CAPLUS
CN Benzoic acid, 2-[4-(diethylamino)-2-hydroxybenzoyl]- (CA INDEX NAME)



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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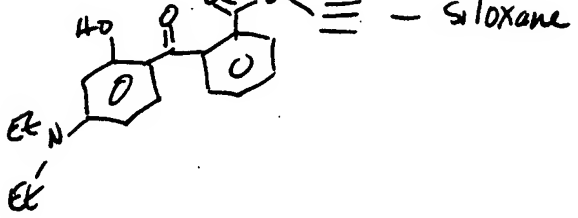
spec 10/521,629

7/16/02



siloxane

L18 ANSWER 9 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2003:836807 CAPLUS
DOCUMENT NUMBER: 139:327930
TITLE: Organosilicone derivatives of amino hydroxybenzophenones and their use as UVA filters in cosmetic preparations
INVENTOR(S): Berg-Schultz, Katja; Huber, Ulrich
PATENT ASSIGNEE(S): Roche Vitamins A.-G., Switz.
SOURCE: PCT Int. Appl., 27 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

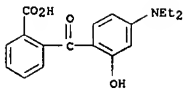
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003086340	A1	20031023	WO 2003-EP3095	20030325
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2003226709	A1	20031027	AU 2003-226709	20030325
EP 1494642	A1	20050112	EP 2003-746278	20030325
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
BR 2003009195	A	20050209	BR 2003-9195	20030325
CN 1646091	A	20050727	CN 2003-808320	20030325
JP 2005539099	T	20051222	JP 2003-583364	20030325
US 2005255066	A1	20051117	US 2005-511020	20050509
PRIORITY APPLN. INFO.:			EP 2002-8419 A	20020412
			WO 2003-EP3095 W	20030325

AB The present invention relates to organosilicone derivs. of amino hydroxybenzophenones, a process for their preparation, a cosmetic compns. comprising the organosilicone derivative and the use thereof for protecting hair and/or skin from damage caused by UVA irradiation

IT 5809-23-4, 2-(4-Diethylamino-2-hydroxybenzoyl)-benzoic acid
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of organosilicone derivs. of amino hydroxybenzophenones as sunscreen against UVA radiation for cosmetics)

RN 5809-23-4 CAPLUS
CN Benzoic acid, 2-[4-(diethylamino)-2-hydroxybenzoyl]- (CA INDEX NAME)

L18 ANSWER 9 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

Same as Hit 8

L18 ANSWER 10 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2003:830446 CAPLUS
DOCUMENT NUMBER: 140:362521
TITLE: Preparation of amino substituted hydroxyphenyl benzophenone derivatives and their uses as UV filters in sunscreen formulations
AUTHOR(S): Anon.
CORPORATE SOURCE: USA
SOURCE: IP.com Journal (2003), 3(8), 40 (No. IPCOM000018721D)
, 4 Aug 2003
CODEN: IJPOBX; ISSN: 1533-0001
PUBLISHER: IP.com, Inc.
DOCUMENT TYPE: Journal; Patent
LANGUAGE: English
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
IP 18721D		20030804		
PRIORITY APPLN. INFO.:			IP 2003-18721D	20030804

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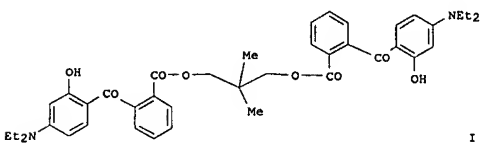
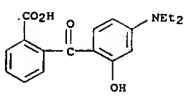


I

AB Described are synthesis of amino substituted hydroxyphenyl benzophenone derivs. The compds. are useful as UV filters in sunscreen applications. For example, comound I synthesized by reacting anhydrous 4-diethylamino 2-hydroxy benzophenone carboxylic acid with 2,2-dimethyl-1,3-propanediol was found to be a good UV absorber and was incorporated into sunscreen formulations.

IT 5809-23-4
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of amino substituted hydroxyphenyl benzophenone derivs. and their uses as UV filters in sunscreen formulations)

RN 5809-23-4 CAPLUS
CN Benzoic acid, 2-[4-(diethylamino)-2-hydroxybenzoyl]- (CA INDEX NAME)



L18 ANSWER 10 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

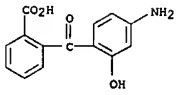
L18 ANSWER 11 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2002:714121 CAPLUS
DOCUMENT NUMBER: 137:237454
TITLE: Use of sunscreen combinations in cosmetic and pharmaceutical preparations
INVENTOR(S): Heidenfelder, Thomas; Tiefensee, Kirstin; Wuensch, Thomas
PATENT ASSIGNEE(S): BASF Aktiengesellschaft, Germany
SOURCE: Eur. Pat. Appl., 27 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1240894	A2	20020918	EP 2002-3206	20020219
EP 1240894	A3	20021106		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
DE 10113058	A1	20020919	DE 2001-10113058	20010315
US 2002192167	A1	20021203	US 2002-95224	20020312
US 6488915	B2	20021219		
JP 2002308761	A	20021023	JP 2002-69215	20020313
AU 2002024613	A5	20020919	AU 2002-24613	20020314
BR 2002000839	A	20030325	BR 2002-839	20020314
CN 1382433	A	20021204	CN 2002-107541	20020315

PRIORITY APPLN. INFO.: DE 2001-10113058 A 20010315

OTHER SOURCE(S): MARPAT 137:237454
AB The invention concerns cosmetic and pharmaceutical prepns. that contain combinations of UV-A and UV-B sunscreens; UV-A screens are from the group of 2-(4-alkoxy-anilinomethylene)-malonic acid esters; UV-B screens are from the group of hydroxybenzophenone derivs., diarylbutadienes, 1,3,5-triazine derivs., benzotriazole derivs., siloxanes, benzimidazole derivs., and benzophenone derivs. Thus a lipstick preparation contained (weight/weight%): 2-(4-alkoxy-anilinomethylene)-malonic acid ester 5.00; hydroxybenzophenone derivative 8.00; titanium dioxide 10.00; zinc oxide 5.00; castor oil 4.00; pentaerythrityl/stearate/caprate/caprylate adipate 4.00; Glyceryl Stearate SE 3.00; beeswax 2.00; microcryst. wax 2.00; quaternium -18 bentonite 2.00; PEG-45-dodecyl glycol copolymer 1.50; eucerinum anhydride to 100.
IT 67414-64-6D, derivs.
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(use of sunscreen combinations in cosmetic and pharmaceutical prepns.)
RN 67414-64-6 CAPLUS
CN Benzoic acid, 2-(4-amino-2-hydroxybenzoyl)- (9CI) (CA INDEX NAME)

L18 ANSWER 11 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



'915 Patent spec

3/15/01

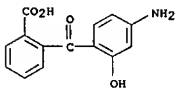
L18 ANSWER 12 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2001:691786 CAPLUS
DOCUMENT NUMBER: 135:247019
TITLE: Mixtures of photoprotectants comprising aminohydroxybenzophenones in cosmetics and pharmaceuticals
INVENTOR(S): Heidenfelder, Thomas; Habeck, Thorsten; Wuensch, Thomas
PATENT ASSIGNEE(S): Basf Aktiengesellschaft, Germany
SOURCE: Eur. Pat. Appl., 33 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1133980	A2	20010919	EP 2001-104958	20010301
EP 1133980	A3	20040102		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
DE 10012408	A1	20010920	DE 2000-10012408	20000315
US 2002001570	A1	20020103	US 2001-805727	20010307
US 6387355	B2	20020514		
JP 2001261540	A	20010926	JP 2001-70070	20010313
BR 2001001085	A	20011106	BR 2001-1085	20010315
CN 1324610	A	20011205	CN 2001-116869	20010315

PRIORITY APPLN. INFO.: DE 2000-10012408 A 20000315

OTHER SOURCE(S): MARPAT 135:247019
AB Mixts. of photoprotectants comprise hydroxybenzopheneones, 4,4'-diarylbutadienes, dibenzoylmethanes, triazines, benzotriazoles, etc., and have UVA radiation absorbing properties. Thus, a sunscreen composition contained octyl methoxycinnamate 10.00, ethoxylated hydrogenated castor oil 6.50, micronized TiO2 6.00, a sunscreen (mixture of hydroxybenzophenones, triazines and benzotriazoles) 5.00, mineral oil 5.00, isoamyl p-methoxycinnamate 5.00, propylene glycol 5.00, jojoba oil 3.00, 4-methylbenzylidenecamphor 3.00, PEG/dodecyl glycol polymer 2.00, dimethicone 1.00, tocopheryl acetate 0.50, phenoxyethanol 0.50, EDTA 0.20, and water to 100%.
IT 67414-64-6D, derivs.
RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(mixts. of photoprotectants comprising aminohydroxybenzophenones in cosmetics and pharmaceuticals)
RN 67414-64-6 CAPLUS
CN Benzoic acid, 2-(4-amino-2-hydroxybenzoyl)- (9CI) (CA INDEX NAME)

L18 ANSWER 12 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

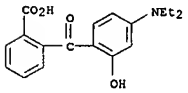


L18 ANSWER 13 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2001:681753 CAPLUS
DOCUMENT NUMBER: 136:201770
TITLE: Syntheses and properties of diphenylaminophthalide derivatives
AUTHOR(S): Nagao, Yukinori; Tachikawa, Masashi; Kozawa, Kozo
CORPORATE SOURCE: Dep. Industrial Chem., Sci. Univ. Tokyo, Noda-shi, Chiba, 278-8510, Japan
SOURCE: Shikizai Kyokaishi (2001), 74(7), 339-345
CODEN: SKYOAO; ISSN: 0010-180X
PUBLISHER: Shikizai Kyokai
DOCUMENT TYPE: Journal
LANGUAGE: Japanese
OTHER SOURCE(S): CASREACT 136:201770

AB Diphenylaminophthalide derivs. were synthesized and their properties as color formers were investigated. Condensation of benzoyl benzoic acids and diphenylamines in acetic anhydride and pyridine afforded the diphenylaminophthalide derivs. having substituents of 4-R2 and 4-R3 in diphenylamino moiety and of 2 X in 3-Ph moiety. The diphenylaminophthalides were colored red to reddish violet in acidic solvent. The visible absorption spectra were measured for the investigation of the substituent effect. R2 and R3 substituents gave a bathochromic shift of the λ max in the order of diethylamino > dimethylamono > methoxy > H. X substituent provided a hypsochromic shift of λ max in the order of ethoxy > hydroxy > Me. Therefore the bathochromic shift increased with increasing electron donating ability of R2 and R3 substituents, and the hypsochromic shift increased with increasing electron-donating ability of X substituent. PPP-MO calcn. also gave a reasonable explanation for the substituent effect.

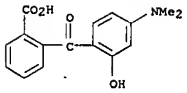
IT 5809-23-4 24460-11-5, Benzoic acid, 2-[4-(dimethylamino)-2-hydroxybenzoyl]-
RL: RCT (Reactant); RACT (Reactant or reagent)
(syntheses and properties of diphenylaminophthalide deriva.)

RN 5809-23-4 CAPLUS
CN Benzoic acid, 2-[4-(diethylamino)-2-hydroxybenzoyl]- (CA INDEX NAME)



RN 24460-11-5 CAPLUS
CN Benzoic acid, 2-[4-(dimethylamino)-2-hydroxybenzoyl]- (9CI) (CA INDEX NAME)

L18 ANSWER 13 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



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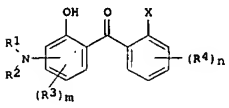
IDS

L18 ANSWER 14 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2000:755208 CAPLUS
DOCUMENT NUMBER: 133:325468
TITLE: Aminohydroxybenzophenones as photostable UV filters in cosmetic and pharmaceutical preparations
INVENTOR(S): Habeck, Thorsten; Prechtl, Frank; Wunsch, Thomas; Westenfelder, Horst; Haremza, Sylke; Bach, Thorsten; Spiegel, Anja
PATENT ASSIGNEE(S): Basf Aktiengesellschaft, Germany
SOURCE: Eur. Pat. Appl., 28 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1046391	A2	20001025	EP 2000-105806	20000318
EP 1046391	A3	20001108		
EP 1046391	B1	20040915		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
DE 19917906	A1	20001026	DE 1999-19917906	19990420
EP 1466585	A2	20041013	EP 2004-9762	20000318
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY				
AT 275929	T	20041015	AT 2000-105806	20000318
PT 1046391	T	20050131	PT 2000-105806	20000318
ES 2228322	T3	20050416	ES 2000-105806	20000318
JP 2000319628	A	20001121	JP 2000-115373	20000417
AU 200028869	A	20001026	AU 2000-28869	20000418
AU 773461	B2	20040520		
CN 1273088	A	20001115	CN 2000-106860	20000420
US 6409995	B1	20020625	US 2000-553897	20000420
CN 1554325	A	20041215	CN 2004-10049311	20000420
PRIORITY APPLN. INFO.:			DE 1999-19917906 A	19990420
			EP 2000-105806 A3	20000318

OTHER SOURCE(S): MARPAT 133:325468
GI



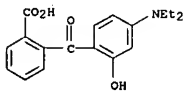
I

AB Aminohydroxybenzophenones (I, e.g., R1, R2 = H, C1-20 alkyl, C2-20 alkenyl, and NR1R2 = 5- or 6-membered ring; R3, R4 = C2-20 alkenyl, X = H, CO2H) are prepared and used as photostable UV filters in cosmetic (or hair prepns.) and pharmaceutical prepns. Thus, a sunscreen cream contained octyl methoxycinnamate 8.00, micronized TiO2 8.00, hydrogenated

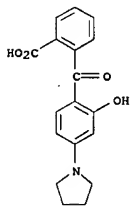
L18 ANSWER 14 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
ethoxylated castor oil 8.00, I 5.00, mineral oil 6.00, ZnO 5.00, iso-Pr myristate 5.00, imidazolidinylurea 0.30, jojoba oil 3.00, PEG45 dodecyl glycol copolymer 2.00, 4-methylbenzylidenecamphor 1.00, Mg stearate 0.60, tocopheryl acetate 0.50, methylparaben 0.25, disodium EDTA 0.20, and propylparaben 0.15 and water to 100%.

IT 5809-23-4P 49742-68-9P 54574-82-2P
RL: BUU (Biological use, unclassified); PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(aminohydroxybenzophenones as photostable UV filters in cosmetic and pharmaceutical prepns.)

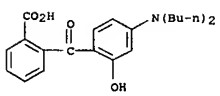
RN 5809-23-4 CAPLUS
CN Benzoic acid, 2-[4-(diethylamino)-2-hydroxybenzoyl]- (CA INDEX NAME)



RN 49742-68-9 CAPLUS
CN Benzoic acid, 2-[2-hydroxy-4-(1-pyrrolidinyl)benzoyl]- (9CI) (CA INDEX NAME)



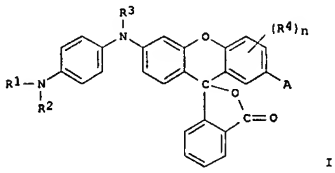
RN 54574-82-2 CAPLUS
CN Benzoic acid, 2-[4-(dibutylamino)-2-hydroxybenzoyl]- (CA INDEX NAME)



L18 ANSWER 15 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1998:239672 CAPLUS
DOCUMENT NUMBER: 129:29099
TITLE: Fluoran dyes and coloring recording materials therefrom with good retention of background whiteness
INVENTOR(S): Yanaida, Mitsuhiro; Kawabe, Toru; Sakamoto, Yasuko
PATENT ASSIGNEE(S): Nippon Soda Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10101949	A	19980421	JP 1996-280378	19960930
PRIORITY APPLN. INFO.:			JP 1996-280378	19960930

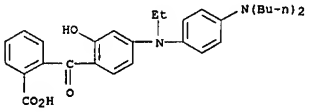
OTHER SOURCE(S): MARPAT 129:29099
GI



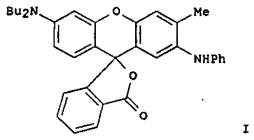
I

AB The title dyes (I; R1, R2 = C1-20 alkyl, R3 = C1-8 alkyl; R4 = C1-4 alkyl, halo; n = 0-3; A = C1-4 alkyl, halo, NHC6H4R5; R5 = C1-4 alkyl, halo) having good lightfastness are claimed. Coloring recording materials containing I are also claimed. Thus, 36.6 g 3-[N-[4'-(N,N-dimethylamino)phenyl]amino]methoxybenzene reacted with 7.3 g NaOH at 90° in DMSO and then with 25.9 g EtI at room temperature to give 3-[N-ethyl-N-[4'-(N,N-dimethylamino)phenyl]amino]methoxybenzene, 10.0 g of which reacted with 6.0 g phthalic anhydride at 40-50° in C2Cl4 in the presence of AlCl3 and neutralized with H2SO4 to give 2-[4'-[N-ethyl-N-[4"-(N,N-dimethylamino)phenyl]]amino-2'-methoxy]benzoylbenzoic acid (II). II (5.5 g) reacted with 4.5 g 2-methyl-4-hydroxydiphenylamine at room temperature and purified to give a fluoran compound I (R1 = R2 = R4 = Me, R3 = Et, A = NHPh) (III) (m.p. 220-222°). Thermal printing paper using III showed optical d. (Macbeth value) 1.22 initially and 0.62 after 24-h UV irradiation,

L18 ANSWER 15 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
while the paper using 2-anilino-3-methyl-6-dibutylaminofluoran (control) showed 1.32 initially and 0.30 after the irradn.
IT 207446-19-3P
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT
(Reactant or reagent)
(preparation of fluoran dyes for coloring printing materials with good lightfastness)
RN 207446-19-3 CAPLUS
CN Benzoic acid, 2-[4-[[4-(dibutylamino)phenyl]ethylamino]-2-hydroxybenzoyl]- (9CI) (CA INDEX NAME)



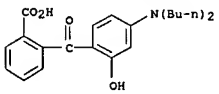
L18 ANSWER 16 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1997:719524 CAPLUS
DOCUMENT NUMBER: 128:68388
TITLE: 13C NMR and Electronic Absorption Spectroscopic Studies on the Equilibrium between the Colorless Lactone and the Colored Zwitterion Forms of a Fluoran-Based Black Color Former
AUTHOR(S): Yanagita, Mitsuhiro; Aoki, Izuo; Tokita, Sumio
CORPORATE SOURCE: Nippon Soda Co., Ltd., 12-54, Goi-minamikaigan, Ichihara, Chiba, 290, Japan
SOURCE: Bulletin of the Chemical Society of Japan (1997), 70(11), 2757-2763
CODEN: BCSJA8; ISSN: 0009-2673
PUBLISHER: Chemical Society of Japan
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



I

AB The equilibrium between the colorless lactone (L) and the colored zwitterion (Z) forms of the fluoran compound (I) , which has been widely used as a typical black color former in data-recording systems, has been studied by 13C NMR and electronic absorption spectroscopies. The compound I showed no visible absorption in aprotic solvents, while a black color appeared in phenolic solvents. The 13C NMR and signal of the spiro carbon of in CDCl3 appeared at 84.2 ppm, indicating that I exists substantially as L in aprotic solvents. In phenol-d6 at 50 °C, the signal of the spiro carbon is shifted to a lower magnetic field and appeared in the sp2-hybridization region (δ = 162.7), suggesting that in phenol-d6, cleavage of the C(spiro)-O bond in the lactone ring occurs and that the ring-opened Z form is produced. The equilibrium between L and Z depended strongly on the temperature and solvents. The high temperature and inhibition of the solute (I)-solvent interaction by steric hindrance, self-association and intramol. chelation of the solvent shifted the L-Z equilibrium toward L. The thermodn. parameters for the equilibrium reaction in phenolic solvents were also estimated
IT 54574-82-2, 2-(4-Dibutylamino-2-hydroxybenzoyl)benzoic acid
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction with methoxymethylphenylaniline in sulfuric acid solution)
RN 54574-82-2 CAPLUS
CN Benzoic acid, 2-[4-(dibutylamino)-2-hydroxybenzoyl]- (CA INDEX NAME)

L18 ANSWER 16 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

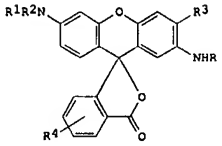


REFERENCE COUNT: 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L18 ANSWER 17 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1986:600590 CAPLUS
DOCUMENT NUMBER: 105:200590
TITLE: Recording material
INVENTOR(S): Satomura, Masato; Iwakura, Ken; Igarashi, Akira
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd. , Japan
SOURCE: Ger. Offen., 25 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3529796	A1	19860522	DE 1985-3529796	19850820
JP 61051381	A	19860313	JP 1984-173591	19840821
JP 61280457	A	19861211	JP 1985-123167	19850606
PRIORITY APPLN. INFO.:			JP 1984-173591 A	19840821
			JP 1985-123167 A	19850606

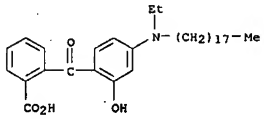
GI



I

AB Pressure-sensitive and thermal recording materials having improved color developability and developed color image stability contain a fluoran derivative I (R = aryl; R1 = C10-18 alkyl, R2 = C≤10 alkyl; R3 = H, halogen, C1-6 alkyl, C1-6 alkoxy, C7-12 aralkyl, C6-9 aryl; R4 = H, Cl, or C1-4 alkyl) and an organic or inorg. acid which develops a color on contact with the fluoran derivative Thus, a mixture containing a ball-milled dispersion (particle size 1.6 μm) of 2-anilino-3-phenyl-6-N-dodecyl-N-ethylaminofluoran 5 g and a 5% aqueous solution of poly(vinyl alc.), a ball-milled dispersion (particle size 1.5 μm) of Bisphenol A 10, β-naphthol benzyl ether 10, kaolin 20 g, and a 5% aqueous solution poly(vinyl alc.), a 50% dispersion of a paraffin wax emulsion 5, and a stearic acid anisidide dispersion 8 g was coated on a paper support at 5 g/m2, dried, and recorded on at 35 mJ/cm2 to give a color d. of 1.03. After exposure to light from a UV lamp for 1 h, the d. was essentially unaltered.

L18 ANSWER 17 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
IT 105176-19-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and cyclization of)
RN 105176-19-0 CAPLUS
CN Benzoic acid, 2-[4-(ethyloctadecylamino)-2-hydroxybenzoyl]- (9CI) (CA INDEX NAME)

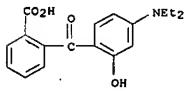


L18 ANSWER 18 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1986:43227 CAPLUS
DOCUMENT NUMBER: 104:43227
TITLE: Recording material
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 60112483	A	19850618	JP 1983-221239	19831124
PRIORITY APPLN. INFO.:			JP 1983-221239	19831124

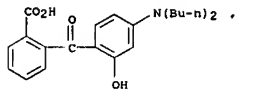
AB A recording material contains a fluoran derivative having an arylamino group at the 7'-, an aralkyl group at the 6'-, and an amine residue at the 3'-position of the fluoran nucleus. The fluoran derivative provides good color-forming behavior and image stability. Thus, 3-benzyl-4-nitroanisole (prepared by the Grignard reaction of PhCH2Br and p-nitroanisole) was hydrogenated over Pd-C to obtain 2-benzyl-4-methoxyaniline, which was then acetylated. The obtained anilide was treated with Cu powder and PhI to form 2-benzyl-4-methoxy-N-acetyldiphenylamine, which was deacetylated to 2-benzyl-4-methoxydiphenylamine. Its reaction with 2-(2-hydroxy-4-diethylaminobenzoyl)benzoic acid gave the corresponding phthalide, which was then treated with NaOH to obtain 7'-phenylamino-6'-benzyl-3'-diethylaminofluoran (I). I 6 and 7'-phenylamino-6'-methyl-3'-(N-ethyl-N-cyclohexylamino)fluoran 3 g were dispersed in 5% poly(vinyl alc.) 50 mL, and the dispersion was mixed with another dispersion containing Bisphenol A 10, kaolin 20, β-naphthol benzyl ether 14 g, and 5% poly(vinyl alc.) 100 mL. The mixture was then added to a paraffin emulsion and stearyl anisidide and coated on plain paper. The image d. obtained by heating using 3 mJ/cm2 was 1.00, which was hardly affected by 1 h UV irradiation

IT 5809-23-4 54574-82-2
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with diphenylamine derivs.)
RN 5809-23-4 CAPLUS
CN Benzoic acid, 2-[4-(diethylamino)-2-hydroxybenzoyl]- (CA INDEX NAME)



RN 54574-82-2 CAPLUS
CN Benzoic acid, 2-[4-(dibutylamino)-2-hydroxybenzoyl]- (CA INDEX NAME)

L18 ANSWER 18 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



L18 ANSWER 19 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1986:13106 CAPLUS
DOCUMENT NUMBER: 104:13106
TITLE: Thermal recording material
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

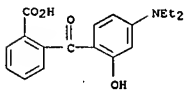
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 60105581	A	19850611	JP 1983-213761	19831114

PRIORITY APPLN. INFO.: JP 1983-213761 19831114

AB A thermal recording material contains a phenol derivative and a fluoran derivative having an anilino group at the 7'-position and an amino group at the 3'-position. The claim also includes similar materials containing a heat-melting material having a m.p. of 70-120°. The material has good color-forming properties and provides storage-stable images. Thus, 7'-anilino-6'-ethyl-3'-diethylaminofluoran 5 g was dispersed in 5% poly(vinyl alc.) 50 mL, mixed with another dispersion containing Bisphenol A 10, β-naphthol benzyl ether 10, kaolin 20 g, and 5% poly(vinyl alc.) 100 mL, further mixed with a 50% aqueous dispersion of a paraffin wax 5 g and a dispersion containing stearic acid anisidide 8 g, and coated on plain paper to form a 5 g/m2 layer. Tests in a facsimile device gave an image d. of 1.20, which was hardly affected by UV irradiation

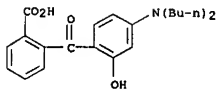
IT 5809-23-4 54574-82-2
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with ethylmethoxydiphenylamine)

RN 5809-23-4 CAPLUS
CN Benzoic acid, 2-[4-(diethylamino)-2-hydroxybenzoyl]- (CA INDEX NAME)



RN 54574-82-2 CAPLUS
CN Benzoic acid, 2-[4-(dibutylamino)-2-hydroxybenzoyl]- (CA INDEX NAME)

L18 ANSWER 19 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



L18 ANSWER 20 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1985:624475 CAPLUS
DOCUMENT NUMBER: 103:224475
TITLE: Thermal recording material
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

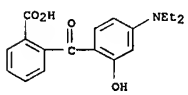
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 60105583	A	19850611	JP 1983-213763	19831114

PRIORITY APPLN. INFO.: JP 1983-213763 19831114

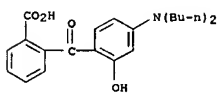
AB A thermal recording material contains a fluoran derivative having an arylamino group at the 7', an amyl group at the 6', and an amino group at the 3' positions. The material has good color-forming properties and provides storage-stable images. Thus, 7'-phenylamino-6'-isoamyl-3'-dibutylaminofluoran 4 and 7'-phenylamino-6'-chloro-3'-diethylaminofluoran 5 g were dispersed in 5% poly(vinyl alc.) 50 mL, the dispersion mixed with another dispersion containing Bisphenol A 10, Kaolin 20, β-naphthol benzyl ether 15 g, and 5% poly(vinyl alc.) 100 mL, then mixed with an emulsion containing a 50% paraffin wax emulsion 5 and stearic acid anisidide 8 g, and coated on plain paper to form a 5 g/m2 layer. An image of d. 1.22, which was obtained in a facsimile device, was hardly affected by UV irradiation for 1 h.

IT 5809-23-4 54574-82-2
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with isoamylmethoxydiphenylamine)

RN 5809-23-4 CAPLUS
CN Benzoic acid, 2-[4-(diethylamino)-2-hydroxybenzoyl]- (CA INDEX NAME)



RN 54574-82-2 CAPLUS
CN Benzoic acid, 2-[4-(dibutylamino)-2-hydroxybenzoyl]- (CA INDEX NAME)

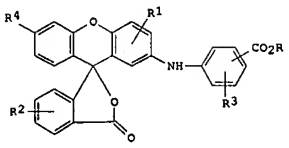


L18 ANSWER 20 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

L18 ANSWER 21 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1985:551007 CAPLUS
DOCUMENT NUMBER: 103:151007
TITLE: Thermographic imaging material
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 60097887	A	19850531	JP 1983-206581	19831102
PRIORITY APPLN. INFO.:			JP 1983-206581	19831102

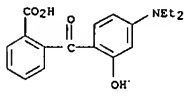
GI



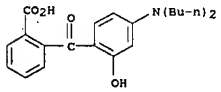
I

AB Claimed imaging material contains a phenolic derivative and a fluoran of the formula I (R = a group containing an arylcarbonyl structure; R1, R2, R3 = H, halo, alkyl; R4 = amine residue). The color image produced by the fluoran has high d. and outstanding image stability. Thus, a dispersion of 2-(o-phenacyloxycarbonyl)anilino-6-diethylaminofluoran in poly(vinyl alc.) aqueous solution and another dispersion of bisphenol A, kaolin and p-phenylphenol benzyl ether in poly(vinyl alc.) aqueous solution were mixed and added to an emulsion of a paraffin wax. Then, the mixture was coated on a paper support to give a thermog. imaging sheet. High d. images with high UV -light stability were obtained.
IT 5809-23-4 54574-82-2
RL: USES (Uses)
(condensation of, with carboxymethoxydiphenylamine)
RN 5809-23-4 CAPLUS

L18 ANSWER 21 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
CN Benzoic acid, 2-[4-(diethylamino)-2-hydroxybenzoyl]- (CA INDEX NAME)



RN 54574-82-2 CAPLUS
CN Benzoic acid, 2-[4-(dibutylamino)-2-hydroxybenzoyl]- (CA INDEX NAME)

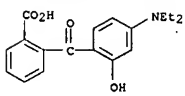


L18 ANSWER 22 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1985:195259 CAPLUS
DOCUMENT NUMBER: 102:195259
TITLE: Fluoran derivatives for thermal recording materials
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

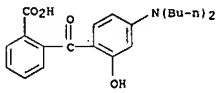
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 59188491	A	19841025	JP 1983-64036	19830412
JP 04060035	B	19920924		
GB 2140449	A	19841128	GB 1984-9355	19840411
GB 2140449	B	19870304		
US 4644377	A	19870217	US 1984-599361	19840412
PRIORITY APPLN. INFO.:			JP 1983-64036 A	19830412

OTHER SOURCE(S): MARPAT 102:195259
AB The claimed fluoran derivs. have an arylamino group at position 2', a long chain alkyl at position 3', and a substituted amino group at position 6'. Also claimed are thermal recording materials using the above derivs. The fluoran derivs. are highly hydrophobic and soluble in organic solvents and produce real black color by contact with electron acceptors. The produced black dyes are extremely stable. Thus, 4-amino-3-pentadecylphenol 0.11 mol was acetylated with Ac2O and methylated using Me2SO4. Reaction with PhI and Cu followed by hydrolysis gave 4-methoxy-2-pentadecyldiphenylamine, which was made to react with 2-(2-hydroxy-4-diethylamino)benzoylbenzoic acid in H2SO4 to obtain 2'-anilino-3'-pentadecyl-6'-diethylaminofluoran (I). I 20 and 2'-phenylamino-3'-methyl-6'-dibutylaminofluoran 15 weight parts were dispersed with poly(vinyl alc.). The dispersion was mixed with another dispersion containing Bisphenol A 30 and stearylanisidide 30 weight parts and coated on plain paper to obtain a thermal recording material that gave real black images by heating. Neither the treatment at 40°, 90% relative humidity for 16 h nor irradiation by a UV lamp for 1 h discolored the images.
IT 5809-23-4 54574-82-2
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with methoxypentadecyldiphenylamine in preparation of fluoran derivative for thermal recording materials)
RN 5809-23-4 CAPLUS
CN Benzoic acid, 2-[4-(diethylamino)-2-hydroxybenzoyl]- (CA INDEX NAME)

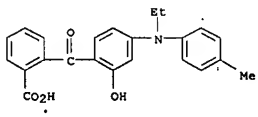
L18 ANSWER 22 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 54574-82-2 CAPLUS
CN Benzoic acid, 2-[4-(dibutylamino)-2-hydroxybenzoyl]- (CA INDEX NAME)



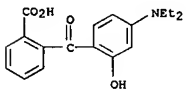
IT 42530-36-9
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with phenylaminopentadecylanisole in preparation of fluoran derivative for thermal recording materials)
RN 42530-36-9 CAPLUS
CN Benzoic acid, 2-[4-[ethyl(4-methylphenyl)amino]-2-hydroxybenzoyl]- (9CI) (CA INDEX NAME)



L18 ANSWER 23 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1985:103690 CAPLUS
DOCUMENT NUMBER: 102:103690
TITLE: Recording material
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 59142182	A	19840815	JP 1983-15928	19830202
PRIORITY APPLN. INFO.:			JP 1983-15928	19830202

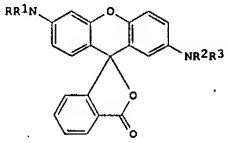
AB Claimed recording material contains (a) a fluoran derivative containing β-keto acylamino structure in the mol. and (b) a phenol derivative The combination provides a thermal or pressure-sensitive recording material with improved color-developing property and image stability. Thus, (1) 2-p-acetoacetylaminoanilino-3-methyl-6-diethylaminofluoran and poly(vinyl alc.) and (2) 2,2'-bis(4-hydroxyphenyl)propane and poly(vinyl alc.) were resp. milled, mixed together, and kaolin and emulsified paraffin wax were added to the mixture Then it was coated on paper support with the coating
weight of 6 g/m2. The thermorecording paper was color developed with a small
thermal energy to a d. of 1.0, and no color shift or fading was observed after 1-h UV exposure.
IT 5809-23-4
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with acetoacetylaminoanisidide)
RN 5809-23-4 CAPLUS
CN Benzoic acid, 2-[4-(diethylamino)-2-hydroxybenzoyl]- (CA INDEX NAME)



L18 ANSWER 24 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1983:25558 CAPLUS
DOCUMENT NUMBER: 98:25558
TITLE: Copying material employing fluoran color formers
INVENTOR(S): Garner, Robert; Petitpierre, Jean C.
PATENT ASSIGNEE(S): Switz.
SOURCE: U.S., 7 pp. Division of U.S. Ser. No. 944,219, abandoned.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4349218	A	19820914	US 1979-81407	19791003
GB 1459417	A	19761222	GB 1973-24079	19730521
IT 1011470	B	19770120	IT 1974-51110	19740520
US 4302393	A	19811124	US 1979-92830	19791109
PRIORITY APPLN. INFO.:			GB 1973-24079	A 19730521
			US 1974-471269	A1 19740520
			US 1976-670780	A1 19760326
			US 1977-822477	A2 19770808
			US 1978-944219	A3 19780920
			GB 1974-24079	A 19740328

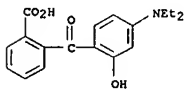
OTHER SOURCE(S): MARPAT 98:25558
GI



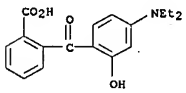
I

AB Fluorans (I; R-R3 = H, C1-12 alkyl, C2-8 alkoxyalkyl, or substituted Bz and ≥1 of R-R3 is C6-12 alkyl) are described for use as color formers in both pressure-sensitive and thermal copying papers. These compds. produce an intense dark green color when contacted with an electron-accepting coreactant. Thus, a solution containing 2-(N-benzyl-N-
octylamino)-6-diethylaminofluoran 3 g in hydrogenated terphenyl 100 g was

L18 ANSWER 24 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
emulsified at 50° in 12% pigskin gelatin 100 g. A 12% gum arabic soln. 100 g was added followed by water 200 mL at 50°. The emulsion was poured into ice water 600 g and stirred for 3 h to complete the coacervation. The resulting slurry was then coated on paper, dried, and the coated side of the paper contacted with a 2nd sheet coated with silton clay, attapulgite clay, or a phenolic resin to give a dark green image on application of pressure by writing.
IT 5809-23-4
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with anisidine derivs.)
RN 5809-23-4 CAPLUS
CN Benzoic acid, 2-[4-(diethylamino)-2-hydroxybenzoyl]- (CA INDEX NAME)



L18 ANSWER 25 OF 25 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1974:520516 CAPLUS
DOCUMENT NUMBER: 81:120516
TITLE: Hetero-annelated fluoran derivatives
AUTHOR(S): Garner, Robert
CORPORATE SOURCE: Clayton Aniline Co. Ltd., Manchester, UK
SOURCE: Chemistry & Industry (London, United Kingdom) (1974), (11), 453-4
CODEN: CHINAG; ISSN: 0009-3068
DOCUMENT TYPE: Journal
LANGUAGE: English
GI For diagram(s), see printed CA Issue.
AB Lanthanide-shifted NMR spectra of the reaction product of 4,2-(Et2N)(HO)C6H3-COC6H4CO2H-2 (I) with 6-hydroxyquinoline confirmed the structure (II, R = X = H). Analogs (II, R = Me, X = H; and R = Me, X = Cl) were also prepared and their NMR and uv spectra determined Reaction of I with 3-(ethoxycarbonyl)-1-ethyl-2-methyl-5-hydroxyindole in H2SO4 at <5° gave III (R = Et, R1 = CO2Et) which was decarboxylated at higher temps., giving III (R1 = H). The N-phenyl analogs (III, R = Ph,
R1 = CO2 Et,H) were also prepared
IT 5809-23-4
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction with hydroxyquinolines and -indoles)
RN 5809-23-4 CAPLUS
CN Benzoic acid, 2-[4-(diethylamino)-2-hydroxybenzoyl]- (CA INDEX NAME)



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10/537,940 Registry/Caplus 04/18/2007

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NEWS 3	JAN 16	CA/CAplus Company Name Thesaurus enhanced and reloaded
NEWS 4	JAN 16	IPC version 2007.01 thesaurus available on STN
NEWS 5	JAN 16	WPIDS/WPINDEX/WPIX enhanced with IPC 8 reclassification data
NEWS 6	JAN 22	CA/CAplus updated with revised CAS roles
NEWS 7	JAN 22	CA/CAplus enhanced with patent applications from India
NEWS 8	JAN 29	PHAR reloaded with new search and display fields
NEWS 9	JAN 29	CAS Registry Number crossover limit increased to 300,000 in multiple databases
NEWS 10	FEB 15	PATDPASPC enhanced with Drug Approval numbers
NEWS 11	FEB 15	RUSSIAPAT enhanced with pre-1994 records
NEWS 12	FEB 23	KOREAPAT enhanced with IPC 8 features and functionality
NEWS 13	FEB 26	MEDLINE reloaded with enhancements
NEWS 14	FEB 26	EMBASE enhanced with Clinical Trial Number field
NEWS 15	FEB 26	TOXCENTER enhanced with reloaded MEDLINE
NEWS 16	FEB 26	IFICDB/IFIPAT/IFIUDB reloaded with enhancements
NEWS 17	FEB 26	CAS Registry Number crossover limit increased from 10,000 to 300,000 in multiple databases
NEWS 18	MAR 15	WPIDS/WPIX enhanced with new FRAGHITSTR display format
NEWS 19	MAR 16	CASREACT coverage extended
NEWS 20	MAR 20	MARPAT now updated daily
NEWS 21	MAR 22	LWPI reloaded
NEWS 22	MAR 30	RDISCLOSURE reloaded with enhancements
NEWS 23	MAR 30	INPADOCDB will replace INPADOC on STN
NEWS 24	APR 02	JICST-EPLUS removed from database clusters and STN

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NEWS LOGIN	Welcome Banner and News Items
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=> s 682349-33-3/RN
L2             1 682349-33-3/RN

=> s 682349-32-2/RN
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=> s 682349-27-5/RN
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=> s 682349-26-4/RN
L5             1 682349-26-4/RN

=> s 682349-25-3/RN
L6             1 682349-25-3/RN

=> s 682349-24-2/RN
L7             1 682349-24-2/RN

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L8             1 682349-23-1/RN

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L9             1 682349-22-0/RN
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               L11 OR L12 OR L13)
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5 docs

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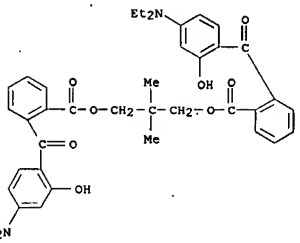
L14 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2006:76252 CAPLUS
DOCUMENT NUMBER: 144:156199
TITLE: Sunscreen cosmetic or dermatological formulations
INVENTOR(S): Mueller, Stefan; Ehlis, Thomas; Giesinger, Jochen; Kreyer, Gilbert
PATENT ASSIGNEE(S): Ciba Specialty Chemicals Holding Inc., Switz.
SOURCE: PCT Int. Appl., 45 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006008252	A1	20060126	WO 2005-EP53301	20050711
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
EP 1768644	A1	20070404	EP 2005-766800	20050711
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR				
GB 2417683	A	20060308	GB 2005-14344	20050713
PRIORITY APPLN. INFO.:			EP 2004-103462 A	20040720
			EP 2004-105034 A	20041014
			WO 2005-EP53301 W	20050711

AB Disclosed is the use of an insol. or sparingly soluble micronized substance
class which is not a cosmetic UV absorber and which is dispersed in the oil- or water-phase of a cosmetic or dermatol. composition for the enhancement
of light protecting action of this cosmetic or dermatol. composition comprising
at least one cosmetic UV filter (e.g., triazines, benzenesulfonic acids) which is soluble in the water- or oil-phase. The cosmetic formulation according to the invention shows a remarkable increase in SPF. Thus, a formulation contained birefringent particle 40-60, electrolyte 0.1-10, water 30-60, and UV filter 0.1-20 parts.
IT 682349-23-1
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(sunscreen cosmetic or dermatol. formulations)
RN 682349-23-1 CAPLUS
CN Benzoic acid, 2-[4-(diethylamino)-2-hydroxybenzoyl]-, 2,2-dimethyl-1,3-propanediyl ester (9CI) (CA INDEX NAME)



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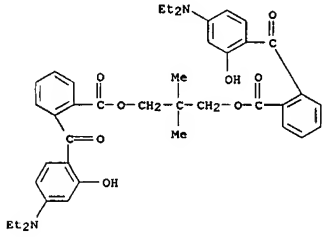
FORMAT

L14 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2005:441243 CAPLUS
DOCUMENT NUMBER: 144:260055
TITLE: Cosmetic composition containing triazine derivatives
AUTHOR(S): Anon.
CORPORATE SOURCE: USA
SOURCE: IP.com Journal (2004), 4(10), 26 (No. IPCOM000031257D), 20 Sep 2004
CODEN: IJPOBX; ISSN: 1533-0001
PUBLISHER: IP.com, Inc.
DOCUMENT TYPE: Journal; Patent
LANGUAGE: English
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
IP 31257D		20040920		
PRIORITY APPLN. INFO.:			IP 2004-31257D	20040920

AB Disclosed is the use organic UV filters selected from 1,3,5-triazines which
are sym. by optionally substituted Ph and aryl radicals, preferably by Ph,
bisphenyl and terphenyl for the protection of human and animal hair and skin against the damaging effect of UV radiation. Most preferably 2,4,6-tris[1,1'-biphenyl]-4-yl-1,3,5-triazine (registry number: 31274-51-8)
is used as organic UV filter. The selected triazine derivs. are highly effective UV absorbers for cosmetic formulations.
IT 682349-23-1
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(cosmetic composition containing triazine derivs.)
RN 682349-23-1 CAPLUS
CN Benzoic acid, 2-[4-(diethylamino)-2-hydroxybenzoyl]-, 2,2-dimethyl-1,3-propanediyl ester (9CI) (CA INDEX NAME)

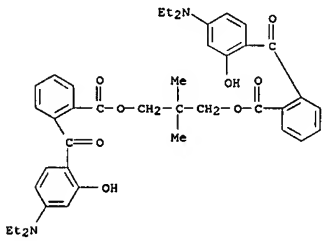


L14 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2004:803835 CAPLUS
DOCUMENT NUMBER: 141:300991
TITLE: Symmetrical triazine derivatives as UV absorbers
INVENTOR(S): Ehlis, Thomas; Muller, Stefan; Hayoz, Pascal
PATENT ASSIGNEE(S): Germany
SOURCE: U.S. Pat. Appl. Publ., 54 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004191191	A1	20040930	US 2004-804676	20040319
AU 2004224086	A1	20041007	AU 2004-224086	20040319
WO 2004085412	A2	20041007	WO 2004-EP50331	20040319
WO 2004085412	A3	20050210		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1606270	A2	20051221	EP 2004-721908	20040319
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK				
BR 2004008994	A	20060328	BR 2004-8994	20040319
CN 1774426	A	20060517	CN 2004-80010224	20040319
JP 2006523197	T	20061012	JP 2006-505476	20040319
PRIORITY APPLN. INFO.:			EP 2003-100758 A	20030324
			EP 2003-102325 A	20030729
			WO 2004-EP50331 A	20040319

OTHER SOURCE(S): MARPAT 141:300991
AB The present invention relates to the use of specific sym. triazine derivs.
for the protection of human and animal hair and skin against the damaging effect of UV radiation, cosmetic compns. comprising these triazine derivs., and process for the preparation of these compds. The compds. can be
used in micronized or soluble form. For example, cyanuric chloride (9.2 g,
0.05 mol) was added to melted biphenyl (200.0 g, 1.28 mol) and hydrogen chloride was discharged for 10 min. Aluminum chloride (20.0 g, 0.15 mol) was added within 40 min in 5 equal portions, whereby hydrogen chloride was
discharged again after the first two addns. After termination of the reaction 95% ethanol (200 mL) was added dropwise slowly. The reaction mixture was heated up for 1 h under reflux. Finally, acetone (400 mL) was
added and agitated for 1 h, cooled down to room temperature and the

L14 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
product was filtered under suction. Yield of tris(biphenyl)-1,3,5-triazine was approx. 65%. Various cosmetic (sunscreen) formulations were prepd. using tris(biphenyl)-1,3,5-triazine and other triazine UV absorbers.
IT 682349-23-1P
RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(sym. triazine derivs. as UV absorbers for cosmetics)
RN 682349-23-1 CAPLUS
CN Benzoic acid, 2-[4-(diethylamino)-2-hydroxybenzoyl]-, 2,2-dimethyl-1,3-propanediyl ester (9CI) (CA INDEX NAME)



L14 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2004:515467 CAPLUS
DOCUMENT NUMBER: 141:71355
TITLE: Preparation of amino substituted hydroxyphenyl benzophenone derivatives as UV absorbers
INVENTOR(S): Haase, Juerg; Ehlis, Thomas; Borsos, Elek; Mueller, Stefan
PATENT ASSIGNEE(S): Ciba Specialty Chemicals Holding Inc., Switz.
SOURCE: PCT Int. Appl., 50 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

Instant

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004052837	A2	20040624	WO 2003-EP50937	20031203
WO 2004052837	A3	20040910		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2003298343	A1	20040630	AU 2003-298343	20031203
EP 1569893	A2	20050907	EP 2003-796081	20031203
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
BR 2003016607	A	20051011	BR 2003-16607	20031203
CN 1726184	A	20060125	CN 2003-80105885	20031203
JP 2006509834	T	20060323	JP 2005-502323	20031203
US 2006018846	A1	20060126	US 2005-537940	20050607

PRIORITY APPLN. INFO.:
EP 2002-406093 A 20021212
CH 2003-1113 A 20030625
EP 2003-102297 A 20030725
WO 2003-EP50937 W 20031203

OTHER SOURCE(S): MARPAT 141:71355
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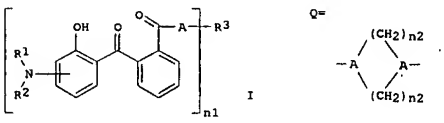
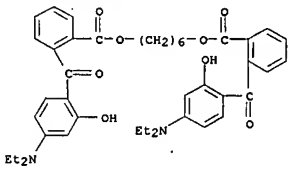
L14 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



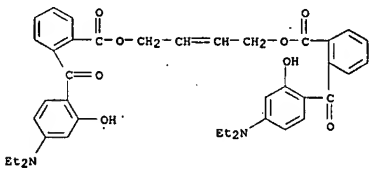
I

AB Described are aminohydroxybenzophenonecarboxamide derivs. of formula (I) [wherein R1, R2 = independently C1-20 alkyl, C2-20 alkenyl, C3-10 cycloalkyl, C3-10 C3-C10 cycloalkenyl; or R1 and R2 together with the linking nitrogen atom form a 5- or 6-membered heterocyclic ring; n1 = 1-4;
when n1 = 1, R3 = saturated or unsatd. heterocyclic radical, hydroxy-C1-C5
alkyl, cyclohexyl optionally substituted with one or more C1-5 alkyl, Ph optionally substituted with a heterocyclic radical, aminocarbonyl, C1-5 alkylcarboxy; when n1 = 2, R3 = alkylene, cycloalkylene or alkenylene radical which is optionally substituted by a carbonyl or carboxy group; or
R3 together with A forms a bivalent radical of the formula Q; wherein n2 = 1-3; when n1 = 3, R3 = alkanetriyl radical; when n1 = 4, R3 = alkanetetrayl radical; A = O, N(R5); R5 = H, C1-5 alkyl, hydroxy-C1-5 alkyl]. These compds. are useful as UV filters in sunscreen applications,
preferably for the protection of human and animal hairs and from the damage of UV radiation as well as cosmetic compns. comprising these compds. Thus, a solution of 10.6 g 3-diethylaminodibenzooxepin (preparation
given) in 20 mL diethylene glycol di-Me ether was added to a suspension of
7.2 g 2-(4-aminophenyl)-6-methylbenzothiazole are suspended in 60 mL diethylene glycol di-Me ether at room temperature under stirring, heated to
90°, and allowed to react for 4 h to give 7.3 g N-[4-(6-methylbenzothiazol-2-yl)phenyl]-2-(4-diethylamino-2-hydroxybenzoyl)benzamide.
IT 682349-16-2P, 1,6-Bis[[2-[4-(diethylamino)-2-hydroxybenzoyl]benzoyl]oxy]hexane 682349-22-0P, 1,4-Bis[[2-[4-(diethylamino)-2-hydroxybenzoyl]benzoyl]oxy]-2-butene 682349-23-1P, 1,3-Bis[[2-[4-(diethylamino)-2-hydroxybenzoyl]benzoyl]oxy]-2,2-dimethylpropane
RL: BUU (Biological use, unclassified); COS (Cosmetic use); SPN (Synthetic
preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of amino substituted hydroxyphenyl benzophenone derivs. as UV
absorbers in sunscreen applications)
RN 682349-16-2 CAPLUS
CN Benzoic acid, 2-[4-(diethylamino)-2-hydroxybenzoyl]-, 1,6-hexanediyl ester
(9CI) (CA INDEX NAME)

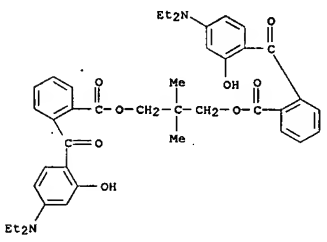
L14 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 682349-22-0 CAPLUS
CN Benzoic acid, 2-[4-(diethylamino)-2-hydroxybenzoyl]-, 2-butene-1,4-diyl ester (9CI) (CA INDEX NAME)



RN 682349-23-1 CAPLUS
CN Benzoic acid, 2-[4-(diethylamino)-2-hydroxybenzoyl]-, 2,2-dimethyl-1,3-propanediyl ester (9CI) (CA INDEX NAME)



L14 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2003:830446 CAPLUS
DOCUMENT NUMBER: 140:362521
TITLE: Preparation of amino substituted hydroxyphenyl benzophenone derivatives and their uses as UV filters in sunscreen formulations
AUTHOR(S): Anon.
CORPORATE SOURCE: USA
SOURCE: IP.com Journal (2003), 3(8), 40 (No. IPCOM000018721D)
, 4 Aug 2003
CODEN: IJPOBX; ISSN: 1533-0001
PUBLISHER: IP.com, Inc.
DOCUMENT TYPE: Journal; Patent
LANGUAGE: English
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
IP 18721D		20030804		
PRIORITY APPLN. INFO.:			IP 2003-18721D	20030804

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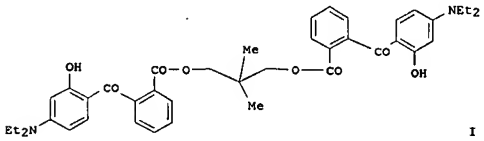
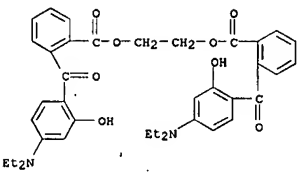


I

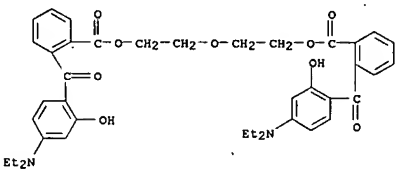
AB Described are synthesis of amino substituted hydroxyphenyl benzophenone derivs. The compds. are useful as UV filters in sunscreen applications. For example, comound I synthesized by reacting anhydrous 4-diethylamino 2-hydroxy benzophenone carboxylic acid with 2,2-dimethyl-1,3-propanediol was found to be a good UV absorber and was incorporated into sunscreen formulations.

IT 682349-24-2 682349-25-3 682349-26-4 682349-27-5 682349-28-6 682349-29-7 682349-30-0 682349-32-2 682349-33-3 682349-34-4
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(preparation of amino substituted hydroxyphenyl benzophenone derivs. and their uses as UV filters in sunscreen formulations)

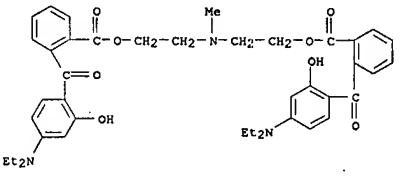
RN 682349-24-2 CAPLUS
CN Benzoic acid, 2-[4-(diethylamino)-2-hydroxybenzoyl]-, 1,2-ethanediyl ester (9CI) (CA INDEX NAME)



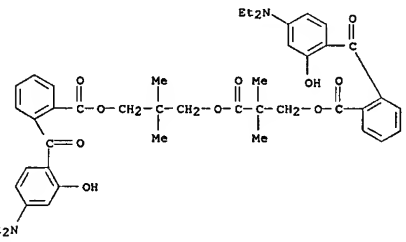
RN 682349-25-3 CAPLUS
CN Benzoic acid, 2-[4-(diethylamino)-2-hydroxybenzoyl]-, oxydi-2,1-ethanediyl ester (9CI) (CA INDEX NAME)



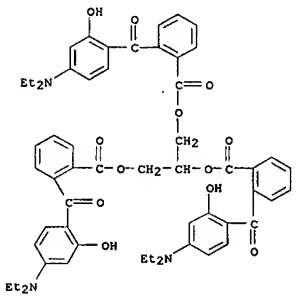
RN 682349-26-4 CAPLUS
CN Benzoic acid, 2-[4-(diethylamino)-2-hydroxybenzoyl]-, (methylimino)di-2,1-ethanediyl ester (9CI) (CA INDEX NAME)



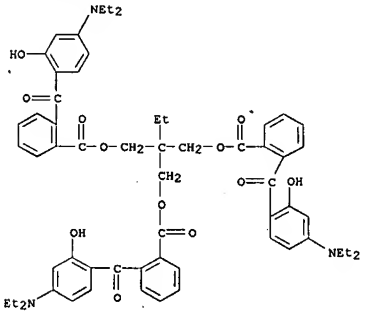
RN 682349-27-5 CAPLUS
CN Benzoic acid, 2-[4-(diethylamino)-2-hydroxybenzoyl]-, 3-[3-[[2-[4-(diethylamino)-2-hydroxybenzoyl]benzoyl]oxy]-2,2-dimethyl-1-oxopropoxy]-2,2-dimethylpropyl ester (9CI) (CA INDEX NAME)



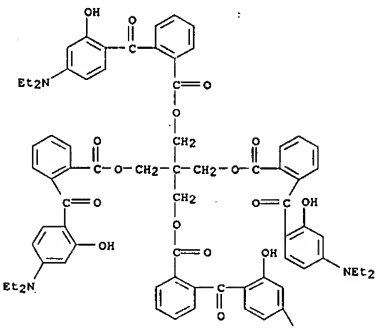
RN 682349-28-6 CAPLUS
CN Benzoic acid, 2-[4-(diethylamino)-2-hydroxybenzoyl]-, 1,2,3-propanetriyl ester (9CI) (CA INDEX NAME)



RN 682349-29-7 CAPLUS
CN Benzoic acid, 2-[4-(diethylamino)-2-hydroxybenzoyl]-, 2-[[[2-[4-(diethylamino)-2-hydroxybenzoyl]benzoyl]oxy]methyl]-2-ethyl-1,3-propanediyl ester (9CI) (CA INDEX NAME)



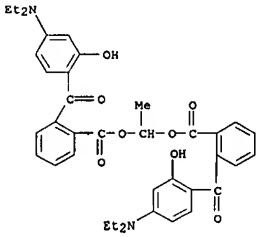
RN 682349-30-0 CAPLUS
CN Benzoic acid, 2-[4-(diethylamino)-2-hydroxybenzoyl]-, 2,2-bis[[[2-[4-(diethylamino)-2-hydroxybenzoyl]benzoyl]oxy]methyl]-1,3-propanediyl ester (9CI) (CA INDEX NAME)



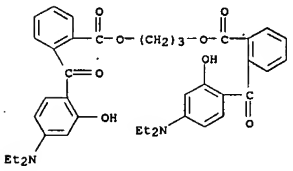
L14 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 2-A

RN 682349-32-2 CAPLUS
CN Benzoic acid, 2-[4-(diethylamino)-2-hydroxybenzoyl]-, ethylidene ester (9CI) (CA INDEX NAME)

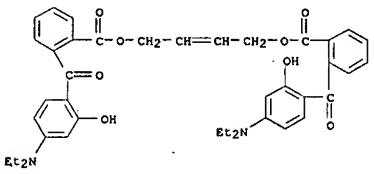


RN 682349-33-3 CAPLUS
CN Benzoic acid, 2-[4-(diethylamino)-2-hydroxybenzoyl]-, 1,3-propanediyl ester (9CI) (CA INDEX NAME)

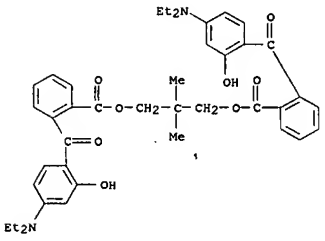


RN 682349-34-4 CAPLUS
CN Benzoic acid, 2-[4-(diethylamino)-2-hydroxybenzoyl]-, 2-butyne-1,4-diyl ester (9CI) (CA INDEX NAME)

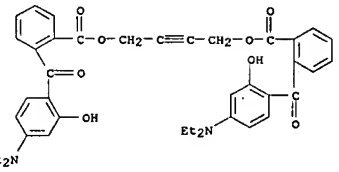
L14 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



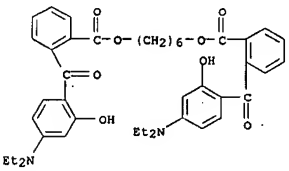
RN 682349-23-1 CAPLUS
CN Benzoic acid, 2-[4-(diethylamino)-2-hydroxybenzoyl]-, 2,2-dimethyl-1,3-propanediyl ester (9CI) (CA INDEX NAME)



L14 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



IT 682349-16-2P 682349-22-0P 682349-23-1P
RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of amino substituted hydroxyphenyl benzophenone derivs. and
their uses as UV filters in sunscreen formulations)
RN 682349-16-2 CAPLUS
CN Benzoic acid, 2-[4-(diethylamino)-2-hydroxybenzoyl]-, 1,6-hexanediyl ester (9CI) (CA INDEX NAME)



RN 682349-22-0 CAPLUS
CN Benzoic acid, 2-[4-(diethylamino)-2-hydroxybenzoyl]-, 2-butene-1,4-diyl ester (9CI) (CA INDEX NAME)